

VADEQ-NRO

Jim Hoy, P.E.
County Engineer

118 West Davis Street, Suite 101, Culpeper, Virginia 22701
Telephone: (540) 727-3409 Fax: (540) 727-3436
Email: jhoy@culpepercounty.goy

Certified Mail

December 14, 2009

Ms. Joan C. Crowther VPDES Permit Writer Virginia Department of Environmental Quality Northern Virginia Regional Office 13901 Crown Court Woodbridge, Virginia 22193

Re: VA0090212 Culpeper County Mountain Run WWTP

Application for VPDES Permit Renewal Response to December 2, 2009, Comments

Dear Ms. Crowther:

Thank you for your December 2, 2009, comments. In response, please find attached an edited original and two (2) copies of an application for renewal for the above referenced permit.

We would like to address each of your comments as provided below:

- 1. **VPDES Permit Application Addendum, Item no. 5**: The County requests that the 8 tier design flows (0.3 MGD, 0.6 MGD, 1.0 MGD, 1.25 MGD, 1.5 MGD, 1.7 MGD, 2.0 MGD and 2.5 MGD) authorized be maintained in the permit reissuance.
- 2. **EPA Form 1, Item X**: As noted, we have removed reference to other site environmental permits.
- 3. **EPA Form 2A, Part A.3**: As noted, we have removed reference to other site environmental permits.

- 4. **EPA Form 2A, Part A8.d.**: Under emergency circumstances, there may be a need for the Mountain Run WWTP to transfer untreated sewage via vactor/tanker truck to other County WWTP facilities. Since the Mountain Run WWTP is not built, this situation is not occurring presently. At this time, there is some County wastewater that is being treated at the Greens Corner WWTP and the Town of Culpeper WWTP.
- 5. **EPA Form 2A, Part A.9.b.**: We have verified the facility's discharge latitude and longitude. This future discharge through outlet 001 will be directly into Mountain Run. The attached topographic map depicts the same.
- 6. **EPA Form 2A, Part A.10.a**: This future discharge through outlet 001 will be directly into Mountain Run, as shown on the attached topographic map.
- 7. **EPA Form 2A, Part B.2**: To the best of our knowledge, we have provided the required information (b.2 (a. f.) for the attached topographic map and WWTP facility plan (vicinity and plan view). As discussed, we are not aware of the presence of drinking water wells or springs within ¼ of a mile of the proposed WWTP.
- 8. **EPA Form 2A, Part B.3:** We have prepared and attached a process flow diagram with a brief narrative for the WWTP.
- 9. **EPA Form 2A, Part B.5**: At this time, the County does not have a proposed construction schedule for the Mountain Run WWTP.
- 10. **VPDES Sewage Sludge Permit Application Addendum**: We have prepared and attached this addendum (parts A and B).

If you have any questions or need additional, please contact me at (540) 727-3409.

Sincerely,

Jim Hoy, P.E. County Engineer

Attachment

c: Master File

Mountain Run Wastewater Treatment Plant, VA0090212 VPDES Permit Application Addendum

	tity to whom the permit is to be issued: County of Culpeper
	ill be legally responsible for the wastewater treatment facilities and compliance with the permit? This may or may the facility or property owner.
2. Is t	this facility located within city or town boundaries? Yes No X
3. P r	ovide the tax map parcel number for the land where the discharge is located. 42 41E
. Fo	r the facility to be covered by this permit, how many acres will be disturbed during the next
live y	ears due to new construction activities? To be determined
5. W	hat is the design average effluent flow of this facility? 2.5 MGD
Fo	r industrial facilities, provide the max. 30-day average production level, include units:
otl If	addition to the design flow or production level, should the permit be written with limits for any ner discharge flow tiers or production levels? Yes X No "Yes", please identify the other flow tiers (in MGD) or production levels: 3 MGD, 0.6 MGD, 1.0 MGD, 1.25 MGD, 1.5 MGD, 1.7 MGD, 2.0 MGD and 2.5 MGD
Please expan	e consider the following questions for both the flow tiers and the production levels (if applicable): Do you plan to d operations during the next five years? Is your facility's design flow considerably greater than your current flow? or both questions
5. Na	iture of operations generating wastewater:
Sani	tary effluent from domestic and commercial sources within Culpeper County
7	E 9/ of flow from demostic connections/courses
	5 % of flow from domestic connections/sources mber of private residences to be served by the treatment works:
INU	imber of private residences to be served by the treatment works.
2	5 % of flow from non-domestic connections/sources
7. M	ode of discharge: X Continuous
	Describe frequency and duration of intermittent or seasonal discharges:
3. Id	entify the characteristics of the receiving stream at the point just above the facility's
dis	scharge point:
	Permanent stream, never dry
	Intermittent stream, usually flowing, sometimes dry
X	
	Ephemeral stream, wet-weather flow, often dry
	Ephemeral stream, wet-weather flow, often dry Effluent-dependent stream, usually or always dry without effluent flow
	Ephemeral stream, wet-weather flow, often dry Effluent-dependent stream, usually or always dry without effluent flow Lake or pond at or below the discharge point
2000min 4400 m	Ephemeral stream, wet-weather flow, often dry Effluent-dependent stream, usually or always dry without effluent flow
X	Ephemeral stream, wet-weather flow, often dry Effluent-dependent stream, usually or always dry without effluent flow Lake or pond at or below the discharge point

FORM	0 = 0.4	U.S. ENVIRO			PROTECTI IFORMA			I. EPA I.D. NUMBER				
Con					ermits Prog			F			T/A C	
GENERAL (Read the "			Gener	al Instr	uctions" bef	ore	starting.)	1 2 13 14 16				
LABEI	L ITEMS							GENERAL INSTRUCTIONS If a preprinted label has been provided, affix it in the				
I. EPAID NUMBER								designated space. Review the information is incorrect, cross through it and en	nation o	carefully	; if any of it	
VA0090212								appropriate fill-in area below. Also, if is absent (the area to the left of	any of	the pre	printed data	
III. FACILITY	aste	ewat	er Trea	atr	ment Plant	information that should appear), plea fill-in area(s) below. If the label is	ase prov	vide it ir	n the proper			
	MAILING	118 West Davis S	Stre	et, S	uite 10	1		need not complete Items I, III, V, a must be completed regardless). Cor	and VI	VI-B which		
Culpeper, VA 22701 has been provided. Refer to the local parties							struction	ns for d	letailed item			
VI. FACILITY LOCATION Culpeper County, Virginia data is collected.								s unue	WHICH UNS			
II. POLLUTANT	T CHARACTERIS	STICS										
submit this for you answer "ne	m and the supple o" to each questic	emental form listed in the pare	nthesi f these	s follo e form: bold-	wing the quant of the second o	est ans	tion. Mark "X" in the box in	he EPA. If you answer "yes" to an the third column if the supplement excluded from permit requirement	ntal for	rm is a	ittached. If on C of the	
	SPECIFIC QU	JESTIONS	Mark 'X' YES					QUESTIONS	YES	NO	FORM ATTACHED	
A. Is this facilit		ned treatment works which		 	ATTACHED	В		(either existing or proposed)	+		ALIAGRED	
		ers of the U.S.? (FORM 2A)	X				include a concentrated	animal feeding operation or tion facility which results in a		X		
			16	17	18	1	discharge to waters of the		19	20	21	
C. Is this a fac	cility which currer	ntly results in discharges to		X		D		(other than those described in A		\checkmark		
above? (FO		an those described in A or B	22	23	24	-	the U.S.? (FORM 2D)	sult in a discharge to waters of	25	26	27	
		treat, store, or dispose of		1		F		ect at this facility industrial or		1.	***************************************	
hazardous	wastes? (FORM	3)		X				elow the lowermost stratum quarter mile of the well bore,		X		
			28	29	30	1	underground sources of d		31	32	33	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons?				×		H	processes such as mining	at this facility fluids for special g of sulfur by the Frasch process, als, in situ combustion of fossil ermal energy? (FORM 4)		×		
(FORM 4)				35	36	1	***************************************		37	38	39	
Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)			40	41	42	J.	J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)			44	45	
III. NAME OF	FACILITY			1								
SKIP M	OUNTAIN R	UN WASTEWATER TE	REAT	TMEN	T PLAN	IT.				4		
15 16 - 29 30									69	Nell,		
IV. FACILITY	CONTACT											
		A. NAME & TITLE (last	, first,	& title,	· · · · · · · · · · · · · · · · · · ·			B. PHONE (area code & no.)		911		
PAUL H	ioward, di	rector of envir	ОИМ	ENT	AL SER	VΙ	CES	(540) 727-3409				
15 16							45	46 48 49 51 52-	55	19491		
V. FACILTY MA	AILING ADDRESS											
c		A. STREET OR P.	П)X TTT								
	ST DAVIS	STREET, SUITE 10	01				internal at the control of the contr					
15 16	THE STREET STREET	D CITY OD TOWN			100	_	45 C STATE	D ZID CODE				
c CULPEP	PER	B. CITY OR TOWN	T	T		Т		D. ZIP CODE				
15 16	LOCATION						40 41 42 47	51		115 2		
VI. FACILITY		REET, ROUTE NO. OR OTHE	R SDI	FCIFIC	DENTIFIE	P					₩X	
c NEAR R		STEVENSBURG ROA	T.T	T T								
15 16		P COLBIT	/ NIAK	ic			45			UIIE.		
CULPEPER	2	B. COUNTY	INAIV	<u> </u>		T		70				
c		C. CITY OR TOWN				T		E. ZIP CODE F. COUNTY CO	ODE (if know	n)	
15 16							40 41 42 47	51 52	-54		t Bay himin	

CONTINUED FROM THE FRONT	
VII. SIC CODES (4-digit, in order of priority)	
A. FIRST (specify) Sewerage Systems: establishments primarily engages	B. SECOND
7 4952 In the collection and disposal of wastes conducted thro	ged 7 (specify)
sewer system, including such treatment processes.	15 16 - 19
C. THIRD	D. FOURTH
c (specify)	c (specify)
15 16 - 19	15 16 - 19
VIII. OPERATOR INFORMATION	
A. NAME	B. Is the name listed in Item
8 COUNTY OF CULPEPER	VIII-A also the owner?
15 16	
C. STATUS OF OPERATOR (Enter the appropriate letter	
F = FEDERAL S = STATE M = PUBLIC (other than federal or state)	(specyy) control control
P = PRIVATE O = OTHER (specify)	
9	15 6 - 18 19 - 21 22 - 26
E. STREET OR P.O. BOX	
118 WEST DAVIS STREET	
118 WEST DAVIS STREET	
26	55
F, CITY OR TOWN	G. STATE H. ZIP CODE IX. INDIAN LAND
	VA 22701 US the facility located on Indian lands?
B CULPEPER	52
15 18	40 41 42 47 - 51
X. EXISTING ENVIRONMENTAL PERMITS	
	(Air Emissions from Proposed Sources)
9 N N/A 9 P	
15 16 17 18 30 15 16 17 18	30
B. UIC (Underground Injection of Fluids)	E. OTHER (specify)
	(specify)
15 16 17 18 30 15 16 17 18	20
C. RCRA (Hazardous Wastes)	E. OTHER (specify)
C 7 1 C 7 1	(specify)
9 R	(openiji)
15 16 17 18 30 15 16 17 18	30
XI. MAP	
Attach to this application a topographic map of the area extending to at lea	st one mile beyond property boundaries. The map must show the outline of the facility, the
location of each of its existing and proposed intake and discharge structures,	each of its hazardous waste treatment, storage, or disposal facilities, and each well where it
injects fluids underground. Include all springs, rivers, and other surface water	podies in the map area. See instructions for precise requirements.
XII. NATURE OF BUSINESS (provide a brief description)	
The County of Culpeper is a municipality that provi	des water and sewerage services to the public.
	7 77
YIII CERTIFICATION (see instructions)	
XIII. CERTIFICATION (see instructions)	
	with the information submitted in this application and all attachments and that, based on my
am aware that there are significant penalties for submitting false information, in	contained in the application, I believe that the information is true, accurate, and complete. I accurate the possibility of fine and imprisonment
A. NAME & OFFICIAL TITLE (type or print) Paul Howard, Jr. B. SIGN	ITURE C. DATE SIGNED
Director of Environmental Corriges	l & brand 12/13/09
Director of Environmental Services	10/6/10/
CONTRACTOR OF STRUCK HOP ON THE	
COMMENTS FOR OFFICIAL USE ONLY	
1 4 1 4	

Form Approved 1/14/99 OMB Number 2040-0086

FACILITY NAME AND PERMIT NUMBER:

Mou	ıntain Run Wastewa	ater Treatment Plant, VA0090212		OMB Number 2040-0086				
ВА	SIC APPLICA	TION INFORMATION						
PAR	T A. BASIC APPL	ICATION INFORMATION FOR ALL AP	PLICANTS:					
All tr	eatment works mus	t complete questions A.1 through A.8 of this	s Basic Application	Information packe	at.			
A.1.	Facility Information	1.						
	Facility name	MOUNTAIN RUN WASTEWATER TRE	ATMENT PLANT					
	Mailing Address	118 West Davis Street, Suite 101, Culpe	eper, VA 22701					
	Contact person	Paul Howard, Jr.						
	Title	Director of Environmental Services						
	Telephone number	(540) 727-3409						
	Facility Address (not P.O. Box)	Near Rte. 652 (Stevensburg Road)						
A.2.	Applicant Informat	ion. If the applicant is different from the above	, provide the following	ng:				
	Applicant name	Culpeper County						
	Mailing Address	118 West Davis Street, Suite 101, Culpr	eper, VA 22701					
	Contact person	Same as noted above			-			
	Title							
	Telephone number							
	Is the applicant the	e owner or operator (or both) of the treatmen	nt works?					
	***************************************	rrespondence regarding this permit should be	directed to the facility	or the applicant.				
	facility	applicant						
A.3.	Existing Environm works (include state	ental Permits. Provide the permit number of a e-issued permits).	any existing environr	nental permits that I	nave been issued to the treatment			
	NPDES N/A		PSD	N/A				
	UIC N/A		Other	N/A				
	RCRA <u>N/A</u>		Other	N/A				
A.4.	Collection System each entity and, if k etc.).	Information. Provide information on municipal nown, provide information on the type of collections.	alities and areas sen tion system (combin	ved by the facility. Fed vs. separate) and	Provide the name and population of dits ownership (municipal, private,			
	Name	Population Served	Type of Collect	ion System	Ownership			
	CCWSA	10,000	Separate		Municipal			
1								

Total population served 10,000

FACILITY NAME AND PERMIT NUMBER:

Mountain Run Wastewater Treatment Plant, VA0090212

Form Approved 1/14/99 OMB Number 2040-0086

For future use on	For future use only, wastewater via tanker truck to/from other County or Town WW treatment facilities (emergency basis								
If transport is by a party other than the applicant, provide:									
Transporter name:	To be determined								
Mailing Address:									
Contact person:									
Title:									
Telephone number									
For each treatment works that receives this discharge, provide the following:									
Name:	To be determined								
Mailing Address:									
Contact person:									
Contact person:									
Contact person: Title: Telephone number									
Title: Telephone number									
Title: Telephone number If known, provide the	: ne NPDES permit number of the treatment works that receives this discharge.								
Title: Telephone number If known, provide the Provide the averag Does the treatment	the NPDES permit number of the treatment works that receives this discharge. The NPDES permit number of the treatment works that receives this discharge. The NPDES permit number of the treatment works that receives this discharge. The NPDES permit number of the treatment works that receives this discharge. The NPDES permit number of the treatment works that receives this discharge.								
Title: Telephone number If known, provide the Provide the averag Does the treatment A.8.a through A.8.c	the NPDES permit number of the treatment works that receives this discharge. The NPDES permit number of the treatment works that receives this discharge. The NPDES permit number of the treatment works that receives this discharge. The NPDES permit number of the treatment works that receives this discharge. The NPDES permit number of the treatment works that receives this discharge.								
Title: Telephone number If known, provide the Provide the averag Does the treatment A.8.a through A.8.c If yes, provide the f	the NPDES permit number of the treatment works that receives this discharge. The daily flow rate from the treatment works into the receiving facility. The works discharge or dispose of its wastewater in a manner not included in above (e.g., underground percolation, well injection)? The NPDES permit number of the treatment works that receives this discharge. The NPDES permit number of the treatment works that receives this discharge.								

FACILITY NAME AND PERMIT NUMBER: Form Approved 1/14/99 OMB Number 2040-0086 Mountain Run Wastewater Treatment Plant, VA0090212 A.11. Description of Treatment. a. What levels of treatment are provided? Check all that apply. Other. Describe: b. Indicate the following removal rates (as applicable): Design BOD removal or Design CBOD removal Design SS removal 95 Design P removal 95 Design N removal 90 Other c. What type of disinfection is used for the effluent from this outfall? If disinfection varies by season, please describe. Ultraviolet (UV) Light Disinfection If disinfection is by chlorination, is dechlorination used for this outfall? d. Does the treatment plant have post aeration? A.12. Effluent Testing Information. All Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three samples and must be no more than four and one-half years apart. Outfall number: **PARAMETER** MAXIMUM DAILY VALUE **AVERAGE DAILY VALUE** Value Units Value Units Number of Samples N/A pH (Minimum) s.u. N/A pH (Maximum) s.u. N/A Flow Rate N/A Temperature (Winter) N/A Temperature (Summer) * For pH please report a minimum and a maximum daily value **MAXIMUM DAILY** POLLUTANT **AVERAGE DAILY DISCHARGE** ANALYTICAL ML / MDL DISCHARGE METHOD Conc. Units Conc. Units Number of Samples CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS. N/A BIOCHEMICAL OXYGEN | BOD-5 N/A DEMAND (Report one) CBOD-5 N/A FECAL COLIFORM N/A TOTAL SUSPENDED SOLIDS (TSS)

END OF PART A.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE

FACILITY NAME AND PERMIT NUMBER: Form Approved 1/14/99 OMB Number 2040-0086 Mountain Run Wastewater Treatment Plant, VA0090212 If the answer to B.5.b is "Yes," briefly describe, including new maximum daily inflow rate (if applicable). Provide dates imposed by any compliance schedule or any actual dates of completion for the implementation steps listed below, as applicable. For improvements planned independently of local, State, or Federal agencies, indicate planned or actual completion dates, as applicable. Indicate dates as accurately as possible. **Actual Completion** Schedule Implementation Stage MM / DD / YYYY MM / DD / YYYY ____/ ____/ _____ ___/ ___/ ____ - Begin construction _____/ ____/ _____ - End construction ___/ ___/ ____ - Begin discharge - Attain operational level e. Have appropriate permits/clearances concerning other Federal/State requirements been obtained? ____Yes No Describe briefly: B.6. EFFLUENT TESTING DATA (GREATER THAN O.1 MGD ONLY). Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old. Outfall Number: 001 POLLUTANT MAXIMUM DAILY AVERAGE DAILY DISCHARGE DISCHARGE Units Number of **ANALYTICAL** ML / MDL Conc. Conc. **METHOD** Samples CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS. AMMONIA (as N) N/A CHLORINE (TOTAL N/A RESIDUAL, TRC) DISSOLVED OXYGEN N/A TOTAL KJELDAHL

N/A NITROGEN (TKN) NITRATE PLUS NITRITE N/A **NITROGEN** OIL and GREASE N/A PHOSPHORUS (Total) N/A TOTAL DISSOLVED N/A SOLIDS (TDS) OTHER

END OF PART B. REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM **2A YOU MUST COMPLETE**

Form Approved 1/14/99 OMB Number 2040-0086

FACILITY NAME AND PERMIT NUMBER:

Mountain Run Wastewater Treatment Plant, VA0090212

SUPPLEMENTAL APPLICATION INFORMATION

PART D. EXPANDED EFFLUENT TESTING DATA

Refer to the directions on the cover page to determine whether this section applies to the treatment works.

Effluent Testing: 1.0 mgd and Pretreatment Treatment Works. If the treatment works has a design flow greater than or equal to 1.0 mgd or it has (or is required to have) a pretreatment program, or is otherwise required by the permitting authority to provide the data, then provide effluent testing data for the following pollutants. Provide the indicated effluent testing information and any other information required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analyses conducted using 40 CFR Part 136 methods. In addition, these data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. Indicate in the blank rows provided below any data you may have on pollutants not specifically listed in this form. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

Outfall number: 001 (Complete once for each outfall discharging effluent to waters of the United States.) POLLUTANT MAXIMUM DAILY AVERAGE DAILY DISCHARGE DISCHARGE Conc. Units Mass Units Conc. Units Mass Units Number **ANALYTICAL** ML/ MDL **METHOD** of Samples METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS. N/A ANTIMONY N/A ARSENIC BERYLLIUM N/A CADMIUM N/A N/A CHROMIUM COPPER N/A LEAD N/A **MERCURY** N/A NICKEL N/A N/A SELENIUM SILVER N/A THALLIUM N/A ZINC N/A CYANIDE N/A TOTAL PHENOLIC COMPOUNDS N/A HARDNESS (AS CaCO₃) N/A Use this space (or a separate sheet) to provide information on other metals requested by the permit writer

FACILITY NAME AND PERMIT NUMBER:

Mountain Run Wastewater Treatment Plant, VA0090212

Outfall number: 001 POLLUTANT	(Comple	discharg		DAILY							
FULLUTANT	A										
	Conc.	Units	HARGE Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
,1,1-TRICHLOROETHANE	N/A			-						·	
,1,2-TRICHLOROETHANE	N/A										
RICHLORETHYLENE	N/A										
/INYL CHLORIDE	N/A										
Use this space (or a separate sheet)) to provide in	formatio	n on other	volatile o	organic coi	mpounds T	requeste	d by the p	permit writer.		
								<u></u>			
ACID-EXTRACTABLE COMPOUNI	DS		l	I	T	1		T			
P-CHLORO-M-CRESOL	N/A										
2-CHLOROPHENOL	N/A										
2,4-DICHLOROPHENOL	N/A										
2,4-DIMETHYLPHENOL	N/A										
4,6-DINITRO-O-CRESOL	N/A										
2,4-DINITROPHENOL	N/A										
2-NITROPHENOL	N/A										
4-NITROPHENOL	N/A										
PENTACHLOROPHENOL	N/A										
PHENOL	N/A										
2,4,6-TRICHLOROPHENOL	N/A										
Use this space (or a separate sheet	t) to provide ir	nformatio	n on othe	r acid-ext	ractable c	ompound	s request	ed by the	e permit writer.		,
					<u></u>						
BASE-NEUTRAL COMPOUNDS.		T	1	1	T		1	T	T	I	Γ
ACENAPHTHENE	N/A				<u> </u>						
ACENAPHTHYLENE	N/A										
ANTHRACENE	N/A										
BENZIDINE	N/A										
BENZO(A)ANTHRACENE	N/A										
BENZO(A)PYRENE	N/A										

FACILITY NAME AND PERMIT NUMBER:

Mountain Run Wastewater Treatment Plant, VA0090212

Form Approved 1/14/99 OMB Number 2040-0086

POLLUTANT FLUORANTHENE FLUORENE HEXACHLOROBENZENE HEXACHLOROBUTADIENE	N/A N/A N/A N/A N/A		M DAIL HARGE Mass	Y	Conc.	VERAGE Units	Mass		Number of Samples	ANALYTICAL METHOD	ML/ MDL
FLUORANTHENE FLUORENE HEXACHLOROBENZENE	N/A N/A N/A			Units	Conc.	Units	Mass	Units	of		ML/ MDL
FLUORENE HEXACHLOROBENZENE	N/A N/A N/A										
HEXACHLOROBENZENE	N/A N/A										
	N/A				1						
HEXACHLOROBUTADIENE				1							
	N/A										
HEXACHLOROCYCLO- PENTADIENE											
HEXACHLOROETHANE	N/A										
INDENO(1,2,3-CD)PYRENE	N/A										
ISOPHORONE	N/A										
NAPHTHALENE	N/A										
NITROBENZENE	N/A										
N-NITROSODI-N-PROPYLAMINE	N/A										
N-NITROSODI- METHYLAMINE	N/A										
N-NITROSODI-PHENYLAMINE	N/A										
PHENANTHRENE	N/A										
PYRENE	N/A										
1,2,4-TRICHLOROBENZENE	N/A										
Use this space (or a separate sheet) to p	orovide ir	nformation	n on othe	r base-ne	utral comp	ounds re	quested t	y the per	mit writer.		
Use this space (or a separate sheet) to p	orovide ir	nformation	n on othe	pollutant	s (e.g., pe	sticides)	requested	by the p	ermit writer.		
	· · · · · · · · · · · · · · · · · · ·										

END OF PART D.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE

VPDES SEWAGE SLUDGE PERMIT APPLICATION FORM

SCREENING INFORMATION

This application is divided into four sections. Section A pertains to all applicants. The applicability of Sections B, C and D depends on your facility's sewage sludge use or disposal practices. The information provided on this page will help you determine which sections to fill out.

1.	All applicants must complete Section A (General Information).
2.	Does this facility generate sewage sludge?X Yes No
	Does this facility derive a material from sewage sludge? YesX No
	If you answered "Yes" to either, complete Section B (Generation Of Sewage Sludge or Preparation Of A Material Derived From Sewage Sludge).
3.	Does this facility apply sewage sludge to the land? YesX No
	Is sewage sludge from this facility applied to the land? YesX No
	If you answer "No" to all above, skip Section C.
	If you answered "Yes" to either, answer the following three questions:
	 Does the sewage sludge from this facility meet the ceiling concentrations, pollutant concentrations, Class A pathogen reduction requirements and one of the vector attraction reduction requirements 1-8, as identified in the instructions? Yes No
	b. Is sewage sludge from this facility placed in a bag or other container for sale or give-away for application to the land? Yes No
	c. Is sewage sludge from this facility sent to another facility for treatment or blending? Yes No
	If you answered "No" to all three, complete Section C (Land Application Of Bulk Sewage Sludge).
	If you answered "Yes" to a, b or c, skip Section C.
4.	Do you own or operate a surface disposal site? YesX No
	If "Yes", complete Section D (Surface Disposal).

SECTION A. GENERAL INFORMATION

All applicants must complete this section.

1.	Fac	cility Information.
	a.	Facility name: Mountain Run Wastewater Treatment Plant
	b.	Contact person: Jim Hoy
		Title: County Engineer
		Phone: (540) 727-3409
	c.	Mailing address:
		Street or P.O. Box: 118 W. Davis Street, Suite 101
		City or Town: <u>Culpeper</u> State: <u>VA</u> Zip: <u>22701</u>
	d.	Facility location:
		Street or Route #: Near Rte. 652, (Stevensburg Road)
		County: <u>Culpeper</u>
		City or Town: <u>Culpeper</u> State: <u>VA</u> Zip: <u>22701</u>
	e.	Is this facility a Class I sludge management facility? X Yes No
	f.	Facility design flow rate: 2.5 mgd
	g.	Total population served: <u>10,000</u>
	h.	Indicate the type of facility:
		\underline{X} Publicly owned treatment works (POTW)
		Privately owned treatment works
		Federally owned treatment works
		Blending or treatment operation
		Surface disposal site
		Other (describe):
2.	Ap	plicant Information. If the applicant is different from the above, provide the following:
	a.	Applicant name:
	b.	Mailing address:
		Street or P.O. Box:
		City or Town: State: Zip:
	c.	Contact person:
		Title:
		Phone: ()
	d.	Is the applicant the owner or operator (or both) of this facility? owner operator
	e.	Should correspondence regarding this permit be directed to the facility or the applicant? facility applicant
3.	Per	rmit Information.
	a.	Facility's VPDES permit number (if applicable): VA0090212
	b.	List on this form or an attachment, all other federal, state or local permits or construction approvals received or applied for that regulate this facility's sewage sludge management practices:
		Permit Number: Type of Permit:
		<u>N/A</u>

FACILITY NAME: Mountain Run Wastewater Treatment Plant VPDES PERMIT NUMBER: VA0090212 4. Indian Country. Does any generation, treatment, storage, application to land or disposal of sewage sludge from this facility occur in Indian Country? Yes X No If "Yes", describe: 5. Topographic Map. Provide a topographic map or maps (or other appropriate maps if a topographic map is unavailable) that shows the following information. Maps should include the area one mile beyond all property boundaries of the facility: a. Location of all sewage sludge management facilities, including locations where sewage sludge is generated, stored, treated, or disposed. (please see attached topographic map and facility plan provided in application package) b. Location of all wells, springs, and other surface water bodies listed in public records or otherwise known to the applicant within 1/4 mile of the property boundaries. (please see attached topographic map and facility plan provided in application package) Line Drawing. Provide a line drawing and/or a narrative description that identifies all sewage sludge processes that will be employed during the term of the permit including all processes used for collecting, dewatering, storing, or treating sewage sludge, the destination(s) of all liquids and solids leaving each unit, and all methods used for pathogen reduction and vector attraction reduction. (please see attached WWTP process flow diagram provided in application package) Contractor Information. Are any operational or maintenance aspects of this facility related to sewage sludge generation, treatment, use or disposal the responsibility of a contractor? Yes X No If "Yes", provide the following for each contractor (attach additional pages if necessary). Name: Mailing address: Street or P.O. Box: City or Town: _____ State: ____ Zip: _____ Phone: ()

If the contractor is responsible for the use and/or disposal of the sewage sludge, provide a description of the service to be provided to the applicant and the respective obligations of the applicant and the contractor(s).

Contractor's Federal, State or Local Permit Number(s) applicable to this facility's sewage sludge:

8. Pollutant Concentrations. Using the table below or a separate attachment, provide sewage sludge monitoring data for the pollutants which limits in sewage sludge have been established in 9 VAC 25-31-10 et seq. for this facility's expected use or disposal practices. All data must be based on three or more samples taken at least one month apart and must be no more than four and one-half years old.

POLLUTANT	CONCENTRATION (mg/kg dry weight)	SAMPLE DATE	ANALYTICAL METHOD	DETECTION LEVEL FOR ANALYSIS
Arsenic	N/A			
Cadmium	N/A			
Chromium	N/A			
Copper	N/A			
Lead	N/A			
Mercury	N/A			
Molybdenum	N/A			
Nickel	N/A			
Selenium	N/A			
Zinc	N/A			

FACILITY NAME: Mountain Run Wastewater Treatment Plant VPDES PERMIT NUMBER: VA0090212

9. Certification. Read and submit the following certification statement with this application. Refer to the indetermine who is an officer for purposes of this certification. Indicate which parts of the application you and are submitting:					
	X Section A (General Information)				
	X Section B (Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge)				
Section C (Land Application of Bulk Sewage Sludge)					
	Section D (Surface Disposal)				
"I certify under penalty of law that this document and all attachments were prepared under my direction or supervisi accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsi gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."					
	Name and official little: Paul Howard, Jr., Director of Environmental Services Signature Paul Efforace Date Signed 12/13/09				
	Telephone number (540) 727-3409				
	Upon request of the department, you must submit any other information necessary to assess sewage sludge use or disposal practices at your facility or identify appropriate permitting requirements.				

SECTION B. GENERATION OF SEWAGE SLUDGE OR PREPARATION OF A MATERIAL DERIVED FROM SEWAGE SLUDGE

Complete this section if your facility generates sewage sludge or derives a material from sewage sludge

1. Amount Generated On Site.

Total dry metric tons per 365-day period generated at your facility: 4400 dry metric tons

2.	dis	tount Received from Off Site. If your facility receives sewage sludge from another facility for treatment, use or cosal, provide the following information for each facility from which sewage sludge is received. If you receive sewage lage from more than one facility, attach additional pages as necessary.
	a.	Facility name: N/A
	b.	Contact Person:
		Title:
		Phone: ()
	c.	Mailing address:
		Street or P.O. Box:
		City or Town: State: Zip:
	d.	Facility location:
		(not P.O. Box)
	e.	Total dry metric tons per 365-day period received from this facility: dry metric tons
	f.	Describe, on this form or on another sheet of paper, any treatment processes known to occur at the off-site facility, including blending activities and treatment to reduce pathogens or vector attraction characteristics:
3.	Tre	eatment Provided at Your Facility.
	a.	Which class of pathogen reduction is achieved for the sewage sludge at your facility? Class A Class B X Neither or unknown
	b.	Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce
		pathogens in sewage sludge: N/A , sewage sludge will be transferred from the facility to a licensed sanitary waste landfill.
	c.	Which vector attraction reduction option is met for the sewage sludge at your facility?
		Option 1 (Minimum 38 percent reduction in volatile solids)
		Option 2 (Anaerobic process, with bench-scale demonstration)
		Option 3 (Aerobic process, with bench-scale demonstration)
		Option 4 (Specific oxygen uptake rate for aerobically digested sludge)
		Option 5 (Aerobic processes plus raised temperature)
		Option 6 (Raise pH to 12 and retain at 11.5)
		Option 7 (75 percent solids with no unstabilized solids)
		Option 8 (90 percent solids with unstabilized solids)
		X None or unknown
	d.	Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce vector
		attraction properties of sewage sludge: N/A, sewage sludge from the facility will be stored and gravity thickened in an enclosed storage tank.
	e.	Describe, on this form or another sheet of paper, any other sewage sludge treatment activities, including
		blending, not identified in a - d above: N/A

4. Preparation of Sewage Sludge Meeting Ceiling and Pollutant Concentrations, Class A Pathogen Requirements and

One of Vector Attraction Reduction Options 1-8 (EQ Sludge).

FACILITY NAME: Mountain Run Wastewater Treatment Plant VPDES PERMIT NUMBER: VA0090212 (If sewage sludge from your facility does not meet all of these criteria, skip Question 4.) a. Total dry metric tons per 365-day period of sewage sludge subject to this section that is applied to the land: N/A dry metric tons b. Is sewage sludge subject to this section placed in bags or other containers for sale or give-away? Yes No Sale or Give-Away in a Bag or Other Container for Application to the Land. (Complete this question if you place sewage sludge in a bag or other container for sale or give-away prior to land application. Skip this question if sewage sludge is covered in Question 4.) a. Total dry metric tons per 365-day period of sewage sludge placed in a bag or other container at your facility for sale or give-away for application to the land: N/A dry metric tons b. Attach, with this application, a copy of all labels or notices that accompany the sewage sludge being sold or given away in a bag or other container for application to the land. Shipment Off Site for Treatment or Blending. (Complete this question if sewage sludge from your facility is sent to another facility that provides treatment or blending. This question does not apply to sewage sludge sent directly to a land application or surface disposal site. Skip this question if the sewage sludge is covered in Questions 4 or 5. If you send sewage sludge to more than one facility, attach additional sheets as necessary.) a. Receiving facility name: N/A b. Facility contact: Phone: () c. Mailing address: Street or P.O. Box: State: Zip: _____ d. Total dry metric tons per 365-day period of sewage sludge provided to receiving facility: dry metric tons e. List, on this form or an attachment, the receiving facility's VPDES permit number as well as the numbers of all other federal, state or local permits that regulate the receiving facility's sewage sludge use or disposal practices: Permit Number: Type of Permit: f. Does the receiving facility provide additional treatment to reduce pathogens in sewage sludge from your facility? _____ Yes _____ No Which class of pathogen reduction is achieved for the sewage sludge at the receiving facility? Class A Class B Neither or unknown Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to reduce pathogens in sewage sludge: Does the receiving facility provide additional treatment to reduce vector attraction characteristics of the sewage sludge? ____ Yes ____ No Which vector attraction reduction option is met for the sewage sludge at the receiving facility? Option 1 (Minimum 38 percent reduction in volatile solids) Option 2 (Anaerobic process, with bench-scale demonstration)

Option 3 (Aerobic process, with bench-scale demonstration)

	Option 4 (Specific oxygen uptake rate for aerobically digested sludge)
	Option 5 (Aerobic processes plus raised temperature)
	Option 6 (Raise pH to 12 and retain at 11.5)
	Option 7 (75 percent solids with no unstabilized solids)
	Option 8 (90 percent solids with unstabilized solids)
	None unknown
	Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to reduce
	vector attraction properties of sewage sludge:
h.	Does the receiving facility provide any additional treatment or blending not identified in f or g above? Yes No
	If "Yes", describe, on this form or another sheet of paper, the treatment processes not identified in f or g above:
i.	If you answered "Yes" to f, g or h above, attach a copy of any information you provide to the receiving facility to comply with the "notice and necessary information" requirement of 9 VAC 25-31-530.G.
j	Does the receiving facility place sewage sludge from your facility in a bag or other container for sale or give-away for application to the land? Yes No
	If "Yes", provide a copy of all labels or notices that accompany the product being sold or given away.
k.	Will the sewage sludge be transported to the receiving facility in a truck-mounted watertight tank normally used for such purposes? Yes No. If "No", provide description and specification on the vehicle used to transport the sewage sludge to the receiving facility.
	Show the haul route(s) on a location map or briefly describe the haul route below and indicate the days of the week
	and the times of the day sewage sludge will be transported.
La	and Application of Bulk Sewage Sludge.
	omplete Question 7.a if sewage sludge from your facility is applied to the land, unless the sewage sludge is covered in testions 4, 5 or 6. Complete Question 7.b, c & d only if you are responsible for land application of sewage sludge.)
a.	Total dry metric tons per 365-day period of sewage sludge applied to all land application sites:
	N/A dry metric tons
b.	Do you identify all land application sites in Section C of this application? Yes No
	If "No", submit a copy of the Land Application Plan (LAP) with this application (LAP should be prepared in accordance with the instructions).
c.	Are any land application sites located in States other than Virginia? Yes No
	If "Yes", describe, on this form or on another sheet of paper, how you notify the permitting authority for the States where the land application sites are located. Provide a copy of the notification.
d.	Attach a copy of any information you provide to the owner or lease holder of the land application sites to comply with the "notice and necessary" information requirement of 9 VAC 25-31-530 F and/or H (Examples may be obtained in Appendix IV).

VPDES PERMIT NUMBER: <u>VA0090212</u>

7.

FACILITY NAME: Mountain Run Wastewater Treatment Plant

FACILITY NAME: Mountain Run Wastewater Treatment Plant VPDES PERMIT NUMBER: VA0090212

8. Surface Disposal.

(Complete Question 8 if sewage sludge from your facility is placed on a surface disposal site.) a. Total dry metric tons per 365-day period of sewage sludge from your facility placed on all surface disposal sites: N/A dry metric tons b. Do you own or operate all surface disposal sites to which you send sewage sludge for disposal? If "No", answer questions c - g for each surface disposal site that you do not own or operate. If you send sewage sludge to more than one surface disposal site, attach additional pages as necessary. c. Site name or number: d. Contact person: Phone: (_____) ____ Contact is: _____ Site Owner _____ Site operator e. Mailing address: Street or P.O. Box: State: Zip: f. Total dry metric tons per 365-day period of sewage sludge from your facility placed on this surface disposal site: dry metric tons List, on this form or an attachment, the surface disposal site VPDES permit number as well as the numbers of all other federal, state or local permits that regulate the sewage sludge use or disposal practices at the surface disposal site: Type of Permit: Permit Number: 9. Incineration. (Complete Question 9 if sewage sludge from your facility is fired in a sewage sludge incinerator.) a. Total dry metric tons per 365-day period of sewage sludge from your facility fired in a sewage sludge incinerator: N/A dry metric tons b. Do you own or operate all sewage sludge incinerators in which sewage sludge from your facility is fired? Yes No If "No", answer questions c - g for each sewage sludge incinerator that you do not own or operate. If you send sewage sludge to more than one sewage sludge incinerator, attach additional pages as necessary. Incinerator name or number: d. Contact person: Title: Phone: () Contact is: Incinerator Owner Incinerator Operator e. Mailing address: Street or P.O. Box: State: _____ Zip: ____ Total dry metric tons per 365-day period of sewage sludge from your facility fired in this sewage sludge incinerator: dry metric tons List on this form or an attachment the numbers of all other federal, state or local permits that regulate the firing

FACILITY NAME: Mountain Run Wastewater Treatment Plant **VPDES PERMIT NUMBER: VA0090212** of sewage sludge at this incinerator: Permit Number: Type of Permit: 10. Disposal in a Municipal Solid Waste Landfill. (Complete Question 10 if sewage sludge from your facility is placed on a municipal solid waste landfill. Provide the following information for each municipal solid waste landfill on which sewage sludge from your facility is placed. If sewage sludge is placed on more than one municipal solid waste landfill, attach additional pages as necessary.) a. Landfill name: BFI Old Dominion Landfill b. Contact person: Carlton Dudding Title: Compliance Coordinator Phone: (804) 226-6197 Contact is: X Landfill Owner Landfill Operator c. Mailing address: Street or P.O. Box: 2001 Charles City Road City or Town: Richmond State: VA Zip: 23231 d. Landfill location. Street or Route #: same as above County: City or Town: _____ State: ____ Zip: _____ e. Total dry metric tons per 365-day period of sewage sludge placed in this municipal solid waste landfill: 4400 dry metric tons List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the operation of this municipal solid waste landfill: Type of Permit: Permit Number: **SWP 553** Sanitary Waste Landfill Does sewage sludge meet applicable requirements in the Virginia Solid Waste Management Regulation, 9 VAC 20-80-10 et seq., concerning the quality of materials disposed in a municipal solid waste landfill? X Yes No h. Does the municipal solid waste landfill comply with all applicable criteria set forth in the Virginia Solid Waste Management Regulation, 9 VAC 20-80-10 et seq.? X Yes No Will the vehicle bed or other container used to transport sewage sludge to the municipal solid waste landfill be watertight and covered? XYes _____No Show the haul route(s) on a location map or briefly describe the route below and indicate the days of the week

and time of the day sewage sludge will be transported. <u>Dewatered sludge from the WWTP would be transported south on Stevensburg Road to State Route 3 and then east on State Route 3 to I-95 South to I-295 into the BFI Old Dominion Landfill in</u>

Henrico County, east of Richmond.

SECTION C. LAND APPLICATION OF BULK SEWAGE SLUDGE

Complete this section for sewage sludge that is land applied unless any of the following conditions apply:

- The sewage sludge meets the Table 1 ceiling concentrations, the Table 3 pollutant concentrations, Class A pathogen requirements and one of the vector attraction reduction options 1-8 (fill out B.4 instead) (EQ Sludge); or
- The sewage sludge is sold or given away in a bag or other container for application to the land (fill out B.5 instead); or
- You provide the sewage sludge to another facility for treatment or blending (fill out B.6 instead).

Complete Section C for every site on which the sewage sludge that you reported in B.7 is land applied.

a. Site name or number: N/A b. Site location (Complete i and ii) i. Street or Route#: County: City or Town: Method of latitude/longitude determination USGS map Filed survey Other c. Topographic map. Provide a topographic map (or other appropriate map if a topographic map is unavailable) that shows the site location. Owner Information. a. Are you the owner of this land application site? Street or P.O. Box: City or Town: Phone: () Applier Information: a. Are you the person who applies, or who is responsible for application of, sewage sludge to this land application site Yes No b. If "No", provide the following information for the person who applies the sewage sludge: Name: Street or P.O. Box: City or Town: Street or P.O. Box: City or Town: Street or P.O. Box: City or Town: Phone: () C. List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person who applies sewage sludge to this land application site: Permit Number: Type of Permit: Street Type. Identify the type of land application site from among the following:	Ide	ntifi	ication of Land App	lication Site.		
i. Street or Route#: County: City or Town: State: Zip: ii. Latitude: Method of latitude/longitude determination USGS map Filed survey Other c. Topographic map. Provide a topographic map (or other appropriate map if a topographic map is unavailable) that shows the site location. Owner Information. a. Are you the owner of this land application site? Yes No If "No", provide the following information about the owner: Name: Street or P.O. Box: City or Town: Phone: () Applier Information: a. Are you the person who applies, or who is responsible for application of, sewage sludge to this land application sit Yes No If "No", provide the following information for the person who applies the sewage sludge: Name: Street or P.O. Box: City or Town: State: Street or P.O. Box: City or Town: Phone: () C. List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person who applies sewage sludge to this land application site: Permit Number: Type of Permit: Type of Permit:	a.	Site	e name or number: N	<u>/A</u>		
County:	b.	Site	e location (Complete	i and ii)		
City or Town: State:		i.	Street or Route#:			
ii. Latitude: Longitude: Method of latitude/longitude determination USGS map Filed survey Other			County:			
Method of latitude/longitude determination			City or Town:		State:	Zip:
USGS mapFiled surveyOther c. Topographic map. Provide a topographic map (or other appropriate map if a topographic map is unavailable) that shows the site location. Owner Information. a. Are you the owner of this land application site?YesNo b. If "No", provide the following information about the owner: Name:Street or P.O. Box:		ii.	Latitude:	Longitude	:	
shows the site location. Owner Information. a. Are you the owner of this land application site? Yes No b. If "No", provide the following information about the owner: Name: Street or P.O. Box: Zip: Phone: () Applier Information: a. Are you the person who applies, or who is responsible for application of, sewage sludge to this land application sit Yes No b. If "No", provide the following information for the person who applies the sewage sludge: Name: Street or P.O. Box: State: Zip: Phone: () City or Town: State: Zip: Phone: () City. Town: State: Zip:				e e	Other	
a. Are you the owner of this land application site? Yes No b. If "No", provide the following information about the owner: Name: Street or P.O. Box: State: Zip: Phone: () Applier Information: a. Are you the person who applies, or who is responsible for application of, sewage sludge to this land application sit Yes No b. If "No", provide the following information for the person who applies the sewage sludge: Name: Street or P.O. Box: State: Zip: Phone: () City or Town: State: Zip: Phone: () C. List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person who applies sewage sludge to this land application site: Permit Number: Type of Permit: Type of Permit: State: State: Type of Permit: State: Type of Permit: State: Type of Permit: State: State: Type of Permit: State: State: Type of Permit: State:	c.			ride a topographic map (or other	appropriate map if a to	ppographic map is unavailable) tha
b. If "No", provide the following information about the owner: Name: Street or P.O. Box: City or Town: Phone: () Applier Information: a. Are you the person who applies, or who is responsible for application of, sewage sludge to this land application sit Yes No b. If "No", provide the following information for the person who applies the sewage sludge: Name: Street or P.O. Box: City or Town: Phone: () C: List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person who applies sewage sludge to this land application site: Permit Number: Type of Permit:	Ov	vner	Information.			
Name: Street or P.O. Box: City or Town: Phone: () Applier Information: a. Are you the person who applies, or who is responsible for application of, sewage sludge to this land application si Yes No b. If "No", provide the following information for the person who applies the sewage sludge: Name: Street or P.O. Box: City or Town: Phone: () c. List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person who applies sewage sludge to this land application site: Permit Number: Type of Permit:	a.	Ar	e you the owner of th	is land application site?	YesNo	
Street or P.O. Box: City or Town: Phone: () Applier Information: a. Are you the person who applies, or who is responsible for application of, sewage sludge to this land application singures. Yes No b. If "No", provide the following information for the person who applies the sewage sludge: Name: Street or P.O. Box: City or Town: Phone: () C. List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person who applies sewage sludge to this land application site: Permit Number: Type of Permit:	b.	If'	'No", provide the foll	owing information about the ow	mer:	
Street or P.O. Box: City or Town: Phone: () Applier Information: a. Are you the person who applies, or who is responsible for application of, sewage sludge to this land application sit Yes No b. If "No", provide the following information for the person who applies the sewage sludge: Name: Street or P.O. Box: City or Town: Phone: () C. List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person who applies sewage sludge to this land application site: Permit Number: Type of Permit:		Na	me:			
City or Town: State: Zip: Phone: () Applier Information: a. Are you the person who applies, or who is responsible for application of, sewage sludge to this land application sin Yes No b. If "No", provide the following information for the person who applies the sewage sludge: Name: Street or P.O. Box: State: Zip: Phone: () C. List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person who applies sewage sludge to this land application site: Permit Number: Type of Permit:						
Phone: ()						
Applier Information: a. Are you the person who applies, or who is responsible for application of, sewage sludge to this land application sin Yes No b. If "No", provide the following information for the person who applies the sewage sludge: Name: Street or P.O. Box: City or Town: State: Zip: Phone: () c. List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person who applies sewage sludge to this land application site: Permit Number: Type of Permit:						
a. Are you the person who applies, or who is responsible for application of, sewage sludge to this land application sit Yes No b. If "No", provide the following information for the person who applies the sewage sludge: Name: Street or P.O. Box: State: Zip: Phone: () C. List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person who applies sewage sludge to this land application site: Permit Number: Type of Permit:	Δn					
b. If "No", provide the following information for the person who applies the sewage sludge: Name: Street or P.O. Box: City or Town: Phone: () C. List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person who applies sewage sludge to this land application site: Permit Number: Type of Permit:	•	Ar	e you the person who	applies, or who is responsible for	or application of, sewaş	ge sludge to this land application s
Name: Street or P.O. Box: City or Town: Phone: () List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person who applies sewage sludge to this land application site: Permit Number: Type of Permit:	b.			lowing information for the perso	n who applies the sewa	ge sludge:
Street or P.O. Box: City or Town: Phone: () List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person who applies sewage sludge to this land application site: Permit Number: Type of Permit:				•		
City or Town: State: Zip: Phone: () c. List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person who applies sewage sludge to this land application site: Permit Number: Type of Permit:						
Phone: () c. List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person who applies sewage sludge to this land application site: Permit Number: Type of Permit:						
c. List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person who applies sewage sludge to this land application site: Permit Number: Type of Permit:						
Permit Number: Type of Permit:	c.	Lis	st, on this form or an	attachment, the numbers of all fe		mits that regulate the person who
		Per	rmit Number:	Type of Permit:		
Site Type. Identify the type of land application site from among the following:				~1		
Site Type. Identify the type of land application site from among the following:						ooptionamentaanissuusse usaanis, aanolin vuonenkir
	Sit	е Ту	pe. Identify the type	of land application site from am	nong the following:	
Agricultural land Reclamation site Forest			Agricultural land	Reclamation site	Forest	
Public contact site Other (describe	***********		e			
Vector Attraction Reduction.	V					
Are any vector attraction reduction requirements met when sewage sludge is applied to the land application site?					avvaga chidoo is anniis	d to the land application site?
Yes No If "Yes", answer a and b.	AI	-			emage studge is applied	a to the faile application site:

FACILITY NAME: Mountain Run Wastewater Treatment Plant a. Indicate which vector attraction reduction option is met: Option 9 (Injection below land surface) Option 10 (Incorporation into soil within 6 hours) b. Describe, on this form or on another sheet of paper, any treatment processes used at the land application site to reduce the vector attraction properties of sewage sludge: Cumulative Loadings and Remaining Allotments. (Complete Question 6 only if the sewage sludge applied to this site since July 20, 1993 is subject to the cumulative pollutant loading rates (CPLRs) - see instructions.) a. Have you contacted DEQ or the permitting authority in the state where the sewage sludge subject to the CPLRs will be applied to ascertain whether bulk sewage sludge subject to the CPLRs has been applied to this site since July 20, 1993? Yes No If "No", sewage sludge subject to the CPLRs may not be applied to this site. If "Yes", provide the following information: Permitting authority: Contact person: Phone: () b. Based upon this inquiry, has bulk sewage sludge subject to the CPLRs been applied to this site since July 20, 1993? Yes ____ No If "No", skip the rest of Question 6. If "Yes", answer questions c - e. Site size, in hectares: _____ (one hectare = 2.471 acres) c. Provide the following information for every facility other than yours that is sending or has sent sewage sludge subject to the CPLRs to this site since July 20, 1993. If more than one such facility sends sewage sludge to this site, attach additional pages as necessary. Facility name: Facility contact: Phone: () Mailing address. Street or P.O. Box: City or Town: State: Zip: Provide the total loading and allotment remaining, in kg/hectare, for each of the following pollutants: Cumulative loading Allotment remaining Arsenic Cadmium Copper Lead Mercury Nickel Selenium Zinc

VPDES PERMIT NUMBER: VA0090212

Complete Questions 7-12 below only if you apply sewage sludge, or you are responsible for land application of sewage sludge, Information required by these questions may be prepared as attachments to this form. Skip the following questions if you contract land application to someone else (as indicated under Section A.7) who is responsible for the operation.

FACILITY NAME: Mountain Run Wastewater Treatment Plant VPDES PERMIT NUMBER: VA0090212

7.	Sludge Characterization. Use the table below or a separate attachment, provide at least one analysis for each parameter.
	PCBs (mg/kg)
	pH (S. U.)
	Percent Solids (%)
	Ammonium Nitrogen (mg/kg)
	Nitrate Nitrogen (mg/kg)
	Total Kjeldahl Nitrogen (mg/kg)
	Total Phosphorus (mg/kg)
	Total Potassium (mg/kg)
	Alkalinity as CaCO ₃ * (mg/kg)
	* Lime treated sludge (10% or more lime by dry weight) should be analyzed for percent CaCO ₃ .
8.	Storage Requirements.
	Existing and proposed sludge storage facilities must provide an estimated annual sludge balance on a monthly basis incorporating such factors as storage capacity, sludge production and land application schedule. Include pertinent calculations justifying storage requirements.
	Proposed sludge storage facilities must also provide the following information:
	a. A sludge storage site layout on a 7.5 minute topographic quadrangle or other appropriate scaled map to show the following topographic features of the surrounding landscape to a distance of 0.25 mile. Clearly mark the property line
	 Water wells, abandoned or operating Surface waters Springs

- 5) Sinkholes
- 6) Underground and/or surface mines
- 7) Mine pool (or other) surface water discharge points
- 8) Mining spoil piles and mine dumps
- 9) Quarry(s)
- 10) Sand and gravel pits

4) Public water supply(s)

- 11) Gas and oil wells
- 12) Diversion ditch(s)
- 13) Agricultural drainage ditch(s)
- 14) Occupied dwellings, including industrial and commercial establishments
- 15) Landfills or dumps
- 16) Other unlined impoundments
- 17) Septic tanks and drainfields
- 18) Injection wells
- 19) Rock outcrops
- b. A topographic map of sufficient detail to clearly show the following information:
 - 1) Maximum and minimum percent slopes
 - 2) Depressions on the site that may collect water
 - 3) Drainageways that may attribute to rainfall run-on to or runoff from this site
 - 4) Portions of the site (if any) which are located with the 100-year floodplain and how the storage facility will be protected from flooding
- c. Data and specifications for the storage facility lining material.
- d. Plan and cross-sectional views of the storage facility.
- e. Depth from the bottom of the storage facility to the seasonal high water table and separation distance to the permanent water table.
- 9. Land Area Requirements. Provide calculations justifying the land area requirements for land application of sewage sludge taking into consideration average soil productivity group, crop(s) to be grown and most limiting factor(s) of the sewage sludge, specifically Plant Available Nitrogen (PAN), Calcium Carbonate Equivalence (CCE), and metal loadings

FACILITY NAME: Mountain Run Wastewater Treatment Plant VPDES PERMIT NUMBER: VA0090212

(CPLR sewage sludge only), where applicable. Relate PAN, CCE, and metal loadings to demonstrate the most limiting factor for land application.

10. Landowner Agreement Forms. Provide a properly completed Sewage Sludge Application Agreement Form (attached) for each landowner if sewage sludge is to be applied onto land not owned by the applicant.

11. Ground Water Monitoring.

Are any ground water monitoring data available for this land application site? _____ Yes _____ No

If "Yes", submit the ground water monitoring data with this permit application. Also submit a written description of the well locations, approximate depth to ground water, and the ground water monitoring procedures used to obtain these data.

12. Land Application Site Information.

(Complete Items a-d for sites receiving infrequent application - land application of sewage sludge up to the agronomic rate at a frequency of once in a 3 year period; complete Items a-h for sites receiving frequent application - land application of sewage sludge in excess of 70% the agronomic rate at a frequency greater than once in a 3 year period)

- a. Provide a general location map for each county which clearly indicates the location of all the land application sites.
- b. For each land application site provide a site plan of sufficient detail to clearly show the concerned landscape features and associated buffer zones (See instructions). Provide a legend for each landscape feature and the net acreage for each field taking into account the proposed buffer zones.
- c. In order to ensure that land application of bulk sewage sludge will not impact federally listed threatened or endangered species or federally designated critical habitat, the applicant must notify the field office of the U. S. Department of the Interior, Fish and Wildlife Service (FWS), by a letter, the proposed land application activities with the identification of the land application sites. The address and phone number of FWS are provided below.

U.S. Fish and Wildlife Service

Virginia Field Office

P.O. Box 480

White Marsh, VA 23183

TEL: (804) 693-6694

Provide a copy of the notification letter with this application form.

d. Provide a soil survey map, preferably photographically based, with the field boundaries clearly marked. (A USDA-SCS soil survey map should be provided, if available.)

Provide a detailed legend for each soil survey map which uses accepted USDA-SCS descriptions of the typifying pedon for each soil series (soil type). Complex associations may be described as a range of characteristics. Soil descriptions shall include as a minimum the following information.

- 1) Soil symbol
- 2) Soil series, textural phase and slope range
- 3) Depth to seasonal high water table
- 4) Depth to bedrock
- 5) Estimated soil productivity group (for the proposed crop rotation)

Item e - h are required for sites receiving frequent application of sewage sludge

- e. In order to verify the information provided in item d, characterize the soil at each land application site. Representative soil borings or test pits to a depth of five feet or to bedrock if shallower, are to be coordinated for the typifying pedon of each soil series (soil type). Soil descriptions shall include as a minimum the following information:
 - 1) Soil symbol
 - 2) Soil series, textural phase and slope range
 - 3) Depth to seasonal high water table
 - 4) Depth to bedrock
 - 5) Estimated soil productivity group (for the proposed crop rotation)
- Collect and analyze soil samples from each field, weighted to best represent each of the soil borings performed for Item e. Using the table below or a separate attachment, provide at least one analysis per sample for each of the following parameters.

Soil Organic Matter (%)	
Soil pH (std. units)	

VPDES PERMIT NUMBER: VA0090212 FACILITY NAME: Mountain Run Wastewater Treatment Plant Cation Exchange Capacity (meq/100g) Total Nitrogen (ppm) Organic Nitrogen (ppm) Ammonia Nitrogen (ppm) Nitrate Nitrogen (ppm) Available Phosphorus (ppm) Exchangeable Potassium (mg/100g) Exchangeable Sodium (mg/100g) Exchangeable Calcium (mg/100g) Exchangeable Magnesium (mg/100g) Arsenic (ppm) Cadmium (ppm) Copper (ppm) Lead (ppm) Mercury (ppm) Molybdenum (ppm) Nickel (ppm) Selenium (ppm) Zinc (ppm) Manganese (ppm)

g. Relate the crop nutrient needs to anticipated yields, soil productivity rating and the various fertilizer or nutrient sources from sludge and chemical fertilizers. Describe any specialized agronomic management practices which may be required as a result of high soil pH. If the sludge is expected to possess an unusually high CCE or other unusual properties, provide a description of any plant tissue testing, supplemental fertilization or intensive agronomic management practices which may be necessary.

Particle Size Analysis or USDA Textural Estimate (%)

h. Using a narrative format and referencing any related charts, describe the proposed cropping system. Show how the crop rotation and management will be coordinated with the design of the land application system. Include any supplemental fertilization program, soil testing and the coordination of tillage practices, planting and harvesting schedules and timing of land application.

FACILITY NAME: Mountain Run Wastewater Treatment Plant VPDES PERMIT NUMBER: VA0090212

SEWAGE SLUDGE APPLICATION AGREEMENT

Th	is sewage sludge application agreement is made on this de	ate	between
	, referred to here as erred to here as the "Permittee".	"landowner", and	
ref	erred to here as the "Permittee".		
Laı	ndowner is the owner of agricultural land shown on the m	ap attached as Exhibit A and designation	ted there as
cer	("landowner's land tain permit requirements following application of sewage	"). Permittee agrees to apply and land sludge on landowner's land in amour	
a n	nanner authorized by VPDES permit number	which is held by the P	ermittee.
Lai cor hea	ndowner acknowledges that the appropriate application of additioning to the property. Moreover, landowner acknow alth, the following site restrictions must be adhered to whole duction:	f sewage sludge will be beneficial in pledges having been expressly advised	providing fertilizer and soil that, in order to protect public
1.	Food crops with harvested parts that touch the sewage s be harvested for 14 months after application of sewage		ove the land surface shall not
2.	Food crops with harvested parts below the surface of th sewage sludge when the sewage sludge remains on the soil;		
3.	Food crops with harvested parts below the surface of the sewage sludge when the sewage sludge remains on the soil;		
4.	Food crops, feed crops, and fiber crops shall not be har	vested for 30 days after application of	f sewage sludge;
5.	Animals shall not be grazed on the land for 30 days after	er application of sewage sludge;	
6.	Turf grown on land where sewage sludge is applied sha sludge when the harvested turf is placed on either land specified by the State Water Control Board;		
7.	Public access to land with a high potential for public exsludge;	sposure shall be restricted for one year	r after application of sewage
8.	Public access to land with a low potential for public expsludge.	posure shall be restricted for 30 days	after application of sewage
9.	Tobacco, because it has been shown to accumulate cade following the application of sewage sludge borne cadm		
spe	rmittee agrees to notify landowner or landowner's designe ecifically prior to any particular application to landowner itten notice to the address specified below.	ee of the proposed schedule for sewag 's land. This agreement may be termi	ge sludge application and nated by either party upon
	Landowner:	Permittee:	
	Signature	Signature	
	Mailing Address	Mailing Address	

SECTION D. SURFACE DISPOSAL

Complete this section only if you own or operate a surface disposal site. Provide the information for each active sewage sludge unit.

1.	Inf	ormation on Active Sewage Sludge Units.				
	a.	Unit name or number: <u>N/A</u>				
	b.	Unit location				
		i. Street or Route#:				
		County:				
		City or Town: State: Zip:				
		ii. Latitude: Longitude:				
		Method of latitude/longitude determination USGS map Filed survey Other				
	c.	Topographic map. Provide a topographic map (or other appropriate map if a topographic map is unavailable) that shows the site location.				
	d.	Total dry metric tons of sewage sludge placed on the active sewage sludge unit per 365-day period:				
		dry metric tons.				
	e.	Total dry metric tons of sewage sludge placed on the active sewage sludge unit over the life of the unit:				
		dry metric tons.				
	f.	Does the active sewage sludge unit have a liner with a minimum hydraulic conductivity of 1 x 10 ⁻⁷ cm/sec? Yes No If "Yes", describe the liner or attach a description.				
	g.	Does the active sewage sludge unit have a leachate collection system? Yes No				
	If "Yes", describe the leachate collection system or attach a description. Also, describe the method used for leach disposal and provide the numbers of any federal, state or local permits for leachate disposal:					
	h.	If you answered "No" to either f or g, answer the following: Is the boundary of the active sewage sludge unit less than 150 meters from the property line of the surface disposal site? YesNo If "Yes", provide the actual distance in meters:				
	i.	Remaining capacity of active sewage sludge unit, in dry metric tons: dry metric tons				
		Anticipated closure date for active sewage sludge unit, if known: (MM/DD/YYYY)				
		Provide with this application a copy of any closure plan developed for this active sewage sludge unit.				
2.	Sev	wage Sludge from Other Facilities.				
		sewage sludge sent to this active sewage sludge unit from any facilities other than yours? Yes No				
		Yes", provide the following information for each such facility, attach additional sheets as necessary.				
	a.	Facility name:				
	b.	Facility contact:				
	υ.					
		Title: Phone: ()				
		Mailing address:				
	c.					
		Street or P.O. Box: City or Town: State: 7in:				
		City or Town: State: Zip:				

FACILITY NAME: Mountain Run Wastewater Treatment Plant VPDES PERMIT NUMBER: VA0090212 d List on this form or an attachment, the facility's VPDES permit number as well as the numbers of all other federal.

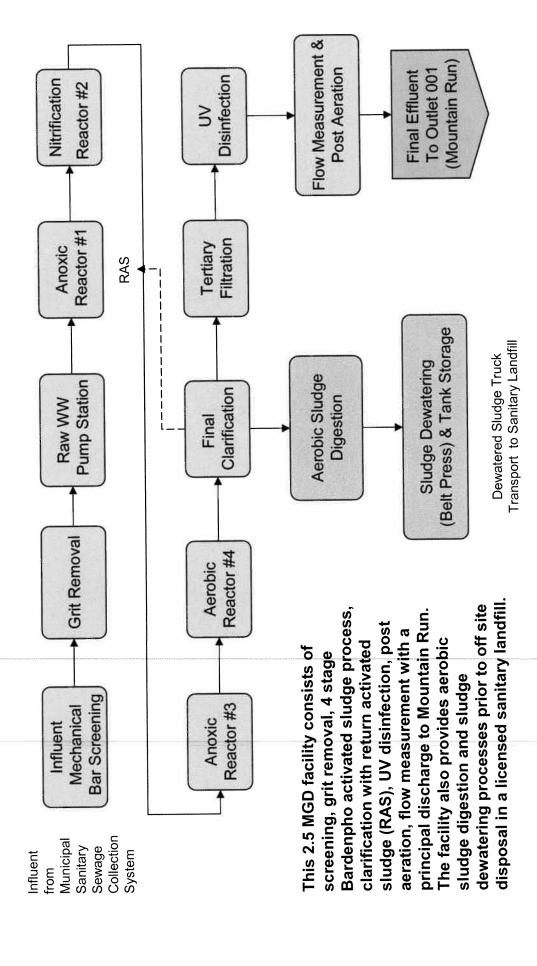
-					
-					
		gen reduction is achieved before sewage sludge leaves the other facility? Class B Neither or unknown			
]	Describe, on this form	n or on another sheet of paper, any treatment processes used at the other facility to reduce			
ļ	pathogens in sewage s	sludge:			
~	Which vector attraction	on reduction option is achieved before sewage sludge leaves the other facility?			
		imum 38 percent reduction in volatile solids)			
-		erobic process, with bench-scale demonstration)			
-	•	obic process, with bench-scale demonstration)			
-		cific oxygen uptake rate for aerobically digested sludge)			
-		obic processes plus raised temperature)			
-		e pH to 12 and retain at 11.5)			
-	_	ercent solids with no unstabilized solids)			
-		ercent solids with unstabilized solids)			
-	None or unkno				
		n or another sheet of paper, any treatment processes used at the other facility to reduce			
		erties of sewage sludge:			
	1 1				
	Describe, on this form	n or another sheet of paper, any other sewage sludge treatment activities performed by the			
,	other facility that are	not identified in e - h above:			
-c1	tor Attraction Reduc	ertion			
		on reduction option, if any, is met when sewage sludge is placed on this active sewage sludge			
	Option 9 (Inje-	ction below land surface)			
	Option 10 (Inc	corporation into soil within 6 hours)			
	Option 11 (Co	vering active sewage sludge unit daily)			
	Describe, on this form	n or another sheet of paper, any treatment processes used at the active sewage sludge unit			
	to reduce vector attra	ction properties of sewage sludge:			
	und Water Monitor Is ground water moni	ing. toring currently conducted at this active sewage sludge unit or are ground water monitoring d			
	otherwise available for this active sewage sludge unit? Yes No				

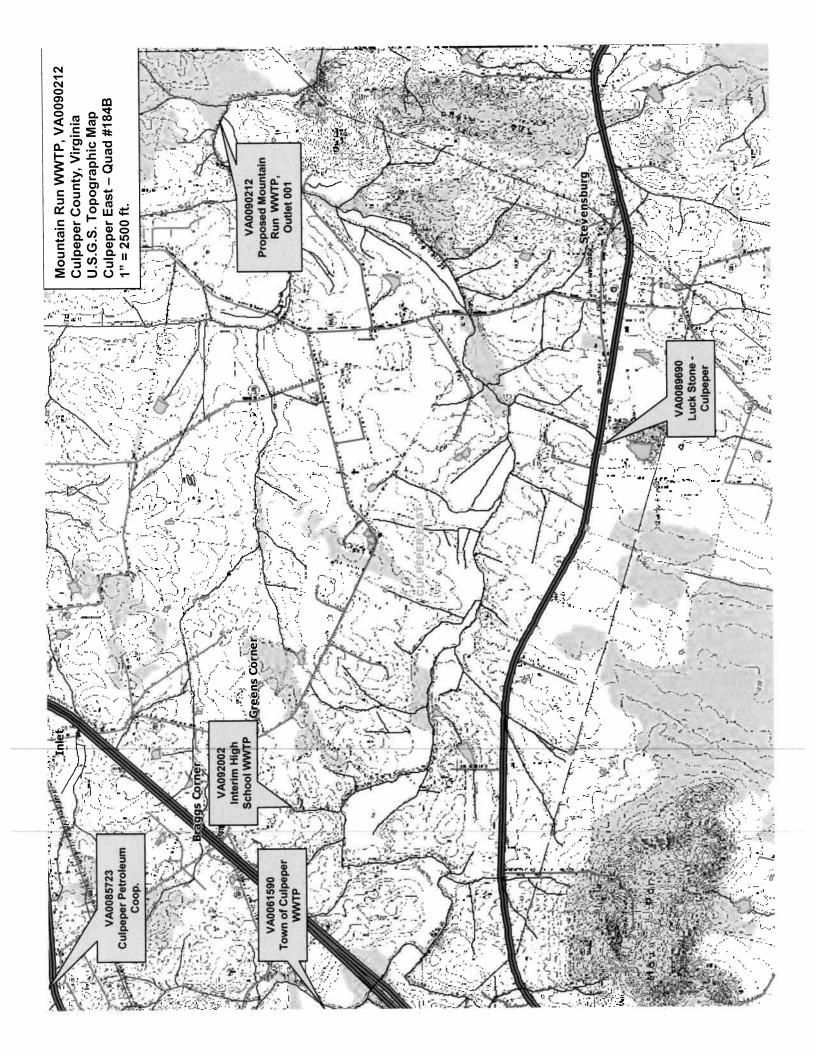
3.

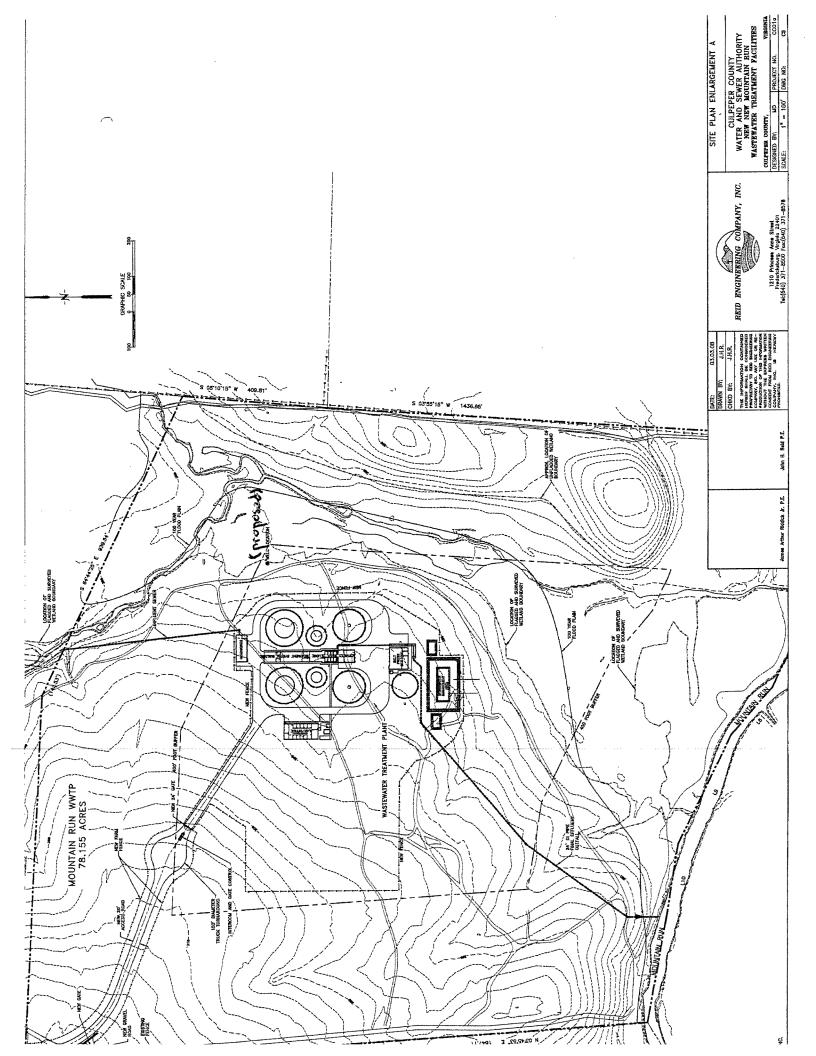
4.

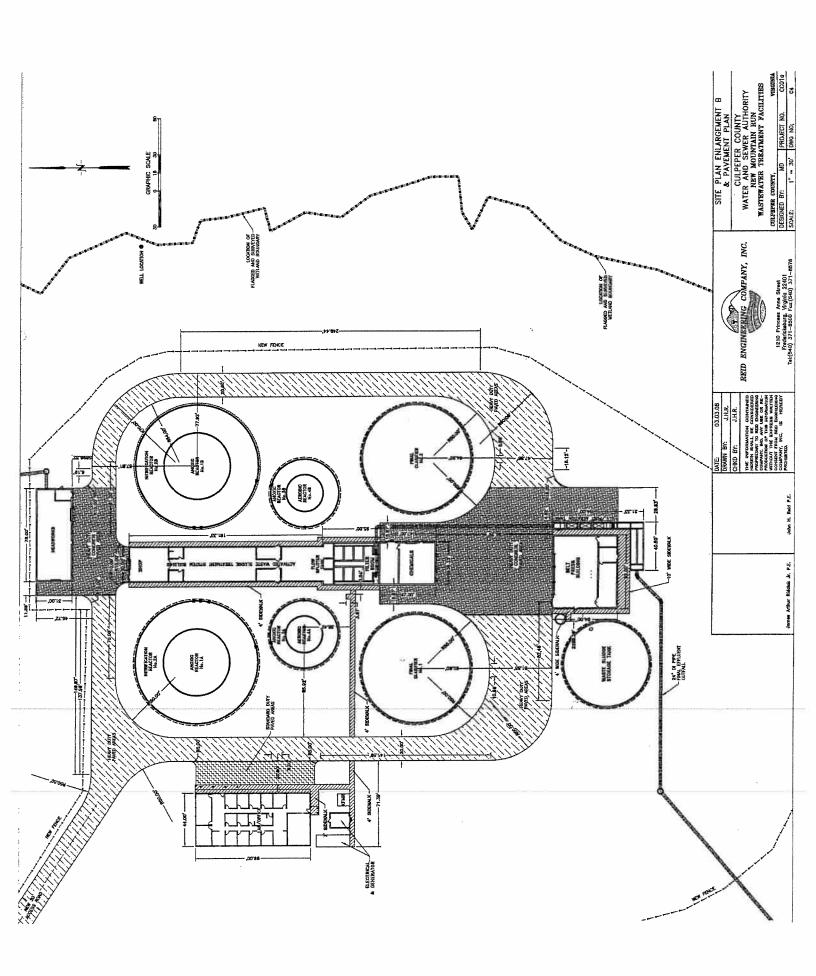
data. b. Has a ground water monitoring program been prepared for this active sewage sludge unit? ______ Yes ______ No If "Yes", submit a copy of the ground water monitoring program with this application. c. Have you obtained a certification from a qualified ground water scientist that the aquifer below the active sewage sludge unit has not been contaminated? ______ Yes ______ No If "Yes", submit a copy of the certification with this application. 5. Site-Specific Limits. Are you seeking site-specific pollutant limits for the sewage sludge placed on the active sewage sludge unit? _____ Yes _____ No If "Yes", submit information to support the request for site-specific pollutant limits with this application.

Mountain Run Wastewater Treatment Facility Process Flow Diagram Culpeper County VA0090212









Crowther, Joan

From:

JIM HOY [JHOY@CULPEPERCOUNTY.GOV]

Sent:

Tuesday, December 15, 2009 10:23 AM

To:

Crowther, Joan

Subject:

FW: Scan of DEQ Mtn Run Resubmission

Attachments: DEQ Mtn Run Permit Response 12-09.pdf

Joan

As promised, attached is an electronic version of the amended VPDES renewal application for the Culpeper County Mt. Run WWTP VPDES renewal application. An original and 2 copies have been sent to you via certified mail.

Please let me know if you have any questions or need additional information.

Jim

Jim Hoy, P.E.
County Engineer
Environmental Services Department
County of Culpeper
118 West Davis Street, Suite 101
Culpeper, Virginia 22701

jhoy@culpepercounty.gov

Direct: (540) 727-3409 Mobile: (540) 718-7445 Fax: (540) 727-3436

From: JANE CRESSWELL

Sent: Monday, December 14, 2009 4:51 PM

To: JIM HOY

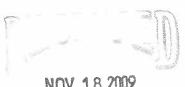
Subject: Scan of DEQ Mtn Run Resubmission

I have this already located in the R:\WATER & WASTEWATER-Contracts & Misc\MOUNTAIN RUN - Future Wastewater

Treatment\DEQ



Jim Hoy, P.E. County Engineer 118 West Davis Street, Suite 101, Culpeper, Virginia 22701 Telephone: (540) 727-3409 Fax: (540) 727-3436 Email: jhoy@culpepercounty.gov



NOV 18 2009

VADEQ-NRO

Certified Mail

November 16, 2009

Ms. Joan C. Crowther **VPDES Permit Writer** Virginia Department of Environmental Quality Northern Virginia Regional Office 13901 Crown Court Woodbridge, Virginia 22193

VA0090212 Culpeper County Mountain Run WWTP Re:

Application for VPDES Permit Renewal

Dear Ms. Crowther:

Please find attached an original and two (2) copies of an application for renewal for the above referenced permit.

If you have any questions or need additional, please contact me at (540) 727-3409.

Sincerely,

Jim Hoy, P.E.

County Engineer

Attachment

c: Master File

Mountain Run Wastewater Teatment Plant, VA0090212 VPDES Permit Application Addendum

1. Entity to whom the permit is to be	e issued: County of Culpeper
Who will be legally responsible for the was not be the facility or property owner.	stewater treatment facilities and compliance with the permit? This may or may
2. Is this facility located within city of	or town boundaries? Yes No X
3. Provide the tax map parcel numb	per for the land where the discharge is located. 42 41E
4. For the facility to be covered by the	his permit, how many acres will be disturbed during the next
five years due to new construction ac	ctivities? To be determined
5. What is the design average effluer	nt flow of this facility? 2.5 MGD
For industrial facilities, provide the	he max. 30-day average production level, include units:
other discharge flow tiers or prod	production level, should the permit be written with limits for any luction levels? Yes No X low tiers (in MGD) or production levels:
	r both the flow tiers and the production levels (if applicable): Do you plan to rs? Is your facility's design flow considerably greater than your current flow?
6. Nature of operations generating w	vastewater:
Sanitary effluent from domestic and c	commercial sources within Culpeper County
75 % of flow from domestic conne	ections/sources
Number of private residences to be	served by the treatment works:
25 % of flow from non-domestic of	connections/sources
7. Mode of discharge : X Continuon Describe frequency and duration	us
3. Identify the characteristics of the discharge point: Permanent stream, never dry	receiving stream at the point just above the facility's
X Intermittent stream, usually flo	owing, sometimes dry
Ephemeral stream, wet-weather	
with the first test to the first test test test test test test test t	ually or always dry without effluent flow
Lake or pond at or below the d	
Other:	
. Approval Date(s):	
O & M Manual N/A	Sludge/Solids Management Plan N/A
Have there been any changes in your	r operations or procedures since the above approval dates? Yes No N
	The state of the s

you answer "no" to each question, you need not submit any or instructions. See also, Section D of the instructions for definition	these	torms bold-1	s. You may faced terms	ans s.	swer no it your activity is excluded from permit requirements	3, 300	Secur	ii C or the
		Mari	(*X*	Π			Mar	
SPECIFIC QUESTIONS	YES	NO	FORM ATTACHED		SPECIFIC QUESTIONS	YES	NO	FORM ATTACHED
 A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A) 				X				
	16	17	18		discharge to waters of the U.S.? (FORM 2B)	19	20	21
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)		×		D	Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)		X	
E. Does or will this facility treat, store, or dispose of	22	23	24	F	. Do you or will you inject at this facility industrial or	25	26	27
hazardous wastes? (FORM 3)		X			municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
O.D. White fall the appropriate design of works	28	29	30	u	Do you or will you inject at this facility fluids for special	31	32	33
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X		П	processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)	37	× 38	39
	34	35	36	+	Is this facility a proposed stationary source which is	3,		38
Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air control of the state of the s		×		J.	NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act		\times	
pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)	46	41	42		and may affect or be located in an attainment area? (FORM 5)	43	44	45
III. NAME OF FACILITY					表现是图示化的主义是 美国的最后的现在分词			
SKIP MOUNTAIN RUN WASTEWATER TE	REAT	MEN	T PLAN	T				
15 16 - 29 30		2011				69		MEASURIER
IV. FACILITY CONTACT					D DUONE (surround fine)	i _{stor}	5-12/36	Arrio de Carlos de C Carlos de Carlos de Carlo
A. NAME & TITLE (last	ŤТ	T		VI	B. PHONE (area code & no.) CES (540) 727-3409			
2 PAUL HOWARD, DIRECTOR OF ENVIR				_		5 J.S		
V. FACILTY MAILING ADDRESS	200		新教信 籍				5.52	
A. STREET OR P.	O. BC	X		1004				
3 118 WEST DAVIS STREET, SUITE 10		TT						
15 16					45			
B. CITY OR TOWN		,			C. STATE D. ZIP CODE			
4 CULPEPER		1 1			' ' VA 22701 ' '			
15 16	2000	ens en e	Secretarion and an	NO.	40 41 42 47 51		e zaz	
VI. FACILITY LOCATION	10.5%	THE SE	建設是			/* C	ind dis-	Cod dolars
A. STREET, ROUTE NO. OR OTHE	R SPE	CIFIC	IDENTIFIE	-R				
s near RTE. 652 (stevenseurg ROA	p) ,	1 1	f i i					
15 16 B. COUNTY	NAM							
CULPEPER	I	T	1 1	T				
46 COLTA OR TOWAR					D. STATE E. ZIP CODE F. COUNTY CO	ODE 4	f know	mi Taraki
C. CITY OR TOWN	T-	П	ТТТ	T	D. STATE E. ZIP CODE F. COUNTY CO	100	, KIIUN	"
15 16					40 41 42 47 51 52	-54		1 100,000,000

D

15

			Printer and their artists in the reliable all the productions and the re-	
VII. SIC CODES (4-digit, in order of priority)	of the last of the		P11 15 4 15 (1974)	
A. FIRST (specify) Sewerage Systems: establishme:	ne primarily appared	(specify)	B. SECOND	
7 4952 in the collection and disposal of was	tes conducted through a /	(Speegy)		
sewer system, including such treatment	processes.	5 16 - 19	B F011B711	
C. THIRD		El I (cnast6)	D. FOURTH	
(specify)	7	(specify)		
15 16 - 19	11	5 16 - 19		
VIII. OPERATOR INFORMATION				4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	A. NAME			B. Is the name listed in Item VIII-A also the owner?
8 COUNTY OF CULPEPER				☑ YES ☐ NO
15 16				5 86
C. STATUS OF OPERATOR (Emer	he appropriate letter into the ar	iswer box: if "Other," specify.)	D	PHONE (area code & no.)
F = FEDERAL		cify) CULPEPER COUNTY, VIRGIN	ZA c	
S = STATE	federal or state) M		A	(540) 727-3409
P = PRIVATE	56		15	6 - 18 19 - 21 22 - 26
E. STREET OR P.	O BOX			`
			*	
118 WEST DAVIS STREET				
28		S5		
F. CITY OR TOV	VN	G. STATE I	H. ZIP CODE IX. INC	IAN LAND
			Is the f	acility located on Indian lands?
B CULPEPER		VA 2	2701 DYE	S ZNO
15 16		40 41 42 47	. 51	
X. EXISTING ENVIRONMENTAL PERMITS		· · · · · · · · · · · · · · · · · · ·		
A. NPDES (Discharges to Surface Water)		sions from Proposed Sources)		
	<u>c 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 </u>			
9 N VA0080527	9 P			
15 16 17 18	30 15 16 17 18		30	
B. UIC (Underground Injection of Fluids)	C T I	E. OTHER	(specify) VPDES,	77 line 2 tromp
9 U	9 VA009060	0'3 ' ' ' ' ' ' ' '	(specify) VEDES,	SIRW DOOWNIE
15 16 17 18	30 15 16 17 18		30	
C. RCRA (Hazardous Wastes)		E. OTHER	(specify)	
C T I	C T I		(specify) VPDES,	Greens Corner WWTP
9 R	9 VA009200)2		
15 16 17 18	9 VA009200 30 15 16 17 18) 2	30	
15 16 17 18 XI. MAP	30 15 16 17 18			
ts 16 17 18 XI. MAP Attach to this application a topographic map of the area	30 15 16 17 18 extending to at least one m	nile beyond property boundarie	s. The map must sho	
XI. MAP Attach to this application a topographic map of the area location of each of its existing and proposed intake and of	extending to at least one mischarge structures, each of	ile beyond property boundarie its hazardous waste treatment,	s. The map must sho storage, or disposal i	acilities, and each well where it
Attach to this application a topographic map of the area location of each of its existing and proposed intake and cinjects fluids underground. Include all springs, rivers, and	extending to at least one mischarge structures, each of	ile beyond property boundarie its hazardous waste treatment,	s. The map must sho storage, or disposal i	acilities, and each well where it
XI. MAP Attach to this application a topographic map of the area location of each of its existing and proposed intake and c injects fluids underground. Include all springs, rivers, and XII. NATURE OF BUSINESS (provide a brief description)	extending to at least one mischarge structures, each of other surface water bodies in	nile beyond property boundarie its hazardous waste treatment, the map area. See instructions	s. The map must sho storage, or disposal i for precise requireme	acilities, and each well where it nts.
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XI. MAP Attach to this application a topographic map of the area location of each of its existing and proposed intake and c injects fluids underground. Include all springs, rivers, and XII. NATURE OF BUSINESS (provide a brief description)	extending to at least one mischarge structures, each of other surface water bodies in	nile beyond property boundarie its hazardous waste treatment, the map area. See instructions	s. The map must sho storage, or disposal i for precise requireme	acilities, and each well where it nts.
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XIII. CERTIFICATION (see instructions) XII. MAP Attach to this application a topographic map of the area location of each of its existing and proposed intake and of injects fluids underground. Include all springs, rivers, and XII. NATURE OF BUSINESS (provide a brief description) The County of Culpeper is a municipal in the county of	extending to at least one mischarge structures, each of other surface water bodies in ty that provides was the ty that provides was ineed and am familiar with the	ille beyond property boundarie its hazardous waste treatment, the map area. See instructions after and sewerage ser	s. The map must sho storage, or disposal if for precise requireme vices to the provided to the property of the	racilities, and each well where it nts. public.
XIII. CERTIFICATION (see instructions)	extending to at least one mischarge structures, each of other surface water bodies in ty that provides was the provides was the provides was mischarge and am familiar with the ining the information contain	ille beyond property boundarie its hazardous waste treatment, the map area. See instructions atter and sewerage ser instructions are information submitted in this are in the application, I believe	s. The map must sho storage, or disposal if for precise requireme vices to the provided the provided that the information is	racilities, and each well where it nts. public.
XIII. CERTIFICATION (see instructions) I certify under penalty of law that I have personally examinquiry of those persons immediately responsible for obta am aware that there are significant penalties for submitting.	extending to at least one mischarge structures, each of other surface water bodies in ty that provides was the ty that provides was ined and am familiar with the ining the information contains graise information, including	ille beyond property boundarie its hazardous waste treatment, the map area. See instructions atter and sewerage ser instructions are information submitted in this are in the application, I believe	s. The map must sho storage, or disposal if for precise requireme vices to the provided the provided that the information is	chments and that, based on my true, accurate, and complete.
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XIII. CERTIFICATION (see instructions) I certify under penalty of law that I have personally exam inquiry of those persons immediately responsible for obta am aware that there are significant penalties for submitting A. NAME & OFFICIAL TITLE (type or print) Paul Howard, Jr. Director of Environmental Servi	extending to at least one mischarge structures, each of other surface water bodies in ty that provides was the ty that provides was interested and am familiar with the ining the information, including the surface water bodies in the type of type	aile beyond property boundarie its hazardous waste treatment, the map area. See instructions atter and sewerage ser information submitted in this a ed in the application, I believe the possibility of fine and impris	s. The map must sho storage, or disposal if for precise requireme vices to the provided the provided that the information is	chments and that, based on my true, accurate, and complete.
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FORM 2A

NPDES FORM 2A APPLICATION OVERVIEW

NPDES

APPLICATION OVERVIEW

Form 2A has been developed in a modular format and consists of a "Basic Application Information" packet and a "Supplemental Application Information" packet. The Basic Application Information packet is divided into two parts. All applicants must complete Parts A and C. Applicants with a design flow greater than or equal to 0.1 mgd must also complete Part B. Some applicants must also complete the Supplemental Application Information packet. The following items explain which parts of Form 2A you must complete.

BASIC APPLICATION INFORMATION:

- A. Basic Application Information for all Applicants. All applicants must complete questions A.1 through A.8. A treatment works that discharges effluent to surface waters of the United States must also answer questions A.9 through A.12.
- B. Additional Application Information for Applicants with a Design Flow ≥ 0.1 mgd. All treatment works that have design flows greater than or equal to 0.1 million gallons per day must complete questions B.1 through B.6.
- C. Certification. All applicants must complete Part C (Certification).

SUPPLEMENTAL APPLICATION INFORMATION:

- D. Expanded Effluent Testing Data. A treatment works that discharges effluent to surface waters of the United States and meets one or more of the following criteria must complete Part D (Expanded Effluent Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to provide the information.
- E. Toxicity Testing Data. A treatment works that meets one or more of the following criteria must complete Part E (Toxicity Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to submit results of toxicity testing.
- F. Industrial User Discharges and RCRA/CERCLA Wastes. A treatment works that accepts process wastewater from any significant industrial users (SIUs) or receives RCRA or CERCLA wastes must complete Part F (Industrial User Discharges and RCRA/CERCLA Wastes). SIUs are defined as:
 - 1. All industrial users subject to Categorical Pretreatment Standards under 40 Code of Federal Regulations (CFR) 403.6 and 40 CFR Chapter I, Subchapter N (see instructions); and
 - 2. Any other industrial user that:
 - a. Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions); or
 - b. Contributes a process wastestream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the treatment plant; or
 - c. Is designated as an SIU by the control authority.
- G. Combined Sewer Systems. A treatment works that has a combined sewer system must complete Part G (Combined Sewer Systems).

ALL APPLICANTS MUST COMPLETE PART C (CERTIFICATION)

FACILITY NAME AND PERMIT NUMBER:

Mountain Run Wastewater Treatment Plant, VA0090212

Is the treatment works local Yes Does the treatment works of through) Indian Country? Yes w. Indicate the design flow rage daily flow rate and maxiod with the 12th month of "to Design flow rate Annual average daily flow rate Maximum daily flow rate Illection System. Indicate the tribution (by miles) of each.	No lischarge to a reconstruction of the treatimum daily flow his year" occur. 2.5 mgd	receiving wa atment plant ww rate for ea rring no mor	(i.e., the waste ach of the last t e than three mo	water flow rate th hree years. Each	at the plant wa	s built to hand ust be based	die). Also pro	vide the
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Maximum daily flow rate llection System. Indicate the order in tribution (by miles) of each.			N/A			THIS TEAT		
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ntribution (by miles) of each.	ne type(s) of co		N/A	***************************************	N/A		N/A	mgd
Separate sanitary sev Combined storm and			em(s) used by	the treatment pla	nt. Check all t	hat apply. Als	100	
I Other Diese								
scharges and Other Dispos	sai wethods.				,			
Does the treatment works of	discharge efflu	ent to waters	s of the U.S.?			Yes		No
If yes, list how many of eac	h of the follow	ing types of	discharge point	ts the treatment w	orks uses:			
i. Discharges of treated e	effluent					2.	.5	
ii. Discharges of untreate	d or partially tr	eated effluer	nt				·	
iii. Combined sewer overfi	low points							
iv. Constructed emergence	y overflows (p	rior to the he	adworks)			******		
v. Other			**************************************					
impoundments that do not	have outlets fo	or discharge	to waters of the		****	Yes		No
Location:								
							mgd	
Is discharge	continuous o	r	intermittent	:?				
					economic and	Yes		No
If yes, provide the following	for each land	application	<u>site</u> :					
Location:					<u></u>		······································	
Number of acres:		······································						
Annual average daily volun	ne applied to s	ite:			Mgd			
Is land application	continu	uous or	inter	mittent?				
	Does the treatment works of it. Discharges of treated etc. Discharges of untreated iii. Combined sewer overfliv. Constructed emergency. Other Does the treatment works of impoundments that do not lif yes, provide the following Location: Annual average daily volunts discharge Does the treatment works of impoundments that do not lif yes, provide the following Location: Annual average daily volunts discharge Does the treatment works of the yes, provide the following Location: Number of acres: Annual average daily volunts land application	If yes, list how many of each of the follow i. Discharges of treated effluent ii. Discharges of untreated or partially tr iii. Combined sewer overflow points iv. Constructed emergency overflows (p v. Other Does the treatment works discharge effluing poundments that do not have outlets for If yes, provide the following for each surfactorial average daily volume discharged Is discharge continuous of Does the treatment works land-apply treatifyes, provide the following for each land Location: Number of acres: Annual average daily volume applied to s Is land application continue Does the treatment works discharge or tr	Does the treatment works discharge effluent to waters of the second process of the secon	Does the treatment works discharge effluent to waters of the U.S.? If yes, list how many of each of the following types of discharge points. Discharges of treated effluent. ii. Discharges of untreated or partially treated effluent. iii. Combined sewer overflow points. iv. Constructed emergency overflows (prior to the headworks). v. Other	Does the treatment works discharge effluent to waters of the U.S.? If yes, list how many of each of the following types of discharge points the treatment w i. Discharges of treated effluent ii. Discharges of untreated or partially treated effluent iii. Combined sewer overflow points iv. Constructed emergency overflows (prior to the headworks) v. Other Does the treatment works discharge effluent to basins, ponds, or other surface impoundments that do not have outlets for discharge to waters of the U.S.? If yes, provide the following for each surface impoundment: Location: Annual average daily volume discharged to surface impoundment(s) Is discharge continuous or intermittent? Does the treatment works land-apply treated wastewater? If yes, provide the following for each land application site: Location: Number of acres: Annual average daily volume applied to site: Is land application intermittent? Does the treatment works discharge or transport treated or untreated wastewater to a	If yes, list how many of each of the following types of discharge points the treatment works uses: i. Discharges of treated effluent ii. Discharges of untreated or partially treated effluent iii. Combined sewer overflow points iv. Constructed emergency overflows (prior to the headworks) v. Other Does the treatment works discharge effluent to basins, ponds, or other surface impoundments that do not have outlets for discharge to waters of the U.S.? If yes, provide the following for each surface impoundment: Location: Annual average daily volume discharged to surface impoundment(s) Is discharge continuous or intermittent? Does the treatment works land-apply treated wastewater? If yes, provide the following for each land application site: Location: Number of acres: Annual average daily volume applied to site: Mgd Is land application continuous or intermittent? Does the treatment works discharge or transport treated or untreated wastewater to another	Does the treatment works discharge effluent to waters of the U.S.? If yes, list how many of each of the following types of discharge points the treatment works uses: i. Discharges of treated effluent ii. Discharges of untreated or partially treated effluent iii. Combined sewer overflow points iv. Constructed emergency overflows (prior to the headworks) v. Other Does the treatment works discharge effluent to basins, ponds, or other surface impoundments that do not have outlets for discharge to waters of the U.S.? Yes If yes, provide the following for each surface impoundment: Location: Annual average daily volume discharged to surface impoundment(s) Is discharge continuous or intermittent? Does the treatment works land-apply treated wastewater? Yes If yes, provide the following for each land application site: Location: Number of acres: Annual average daily volume applied to site: Mgd Is land application continuous or intermittent? Does the treatment works discharge or transport treated or untreated wastewater to another	Does the treatment works discharge effluent to waters of the U.S.? If yes, list how many of each of the following types of discharge points the treatment works uses: i. Discharges of treated effluent ii. Discharges of untreated or partially treated effluent iii. Combined sewer overflow points iv. Constructed emergency overflows (prior to the headworks) v. Other Does the treatment works discharge effluent to basins, ponds, or other surface impoundments that do not have outlets for discharge to waters of the U.S.? Yes If yes, provide the following for each surface impoundment: Location: Annual average daily volume discharged to surface impoundment(s) Is discharge continuous or intermittent? Does the treatment works land-apply treated wastewater? Yes If yes, provide the following for each land application site: Location: Number of acres: Annual average daily volume applied to site: Mgd Is land application continuous or intermittent? Does the treatment works discharge or transport treated or untreated wastewater to another

FACILITY NAME AND PERMIT NUMBER:

Mountain Run Wastewater Treatment Plant, VA0090212

5. In	Indian Country.	
a.	a. Is the treatment works located in Indian Country?	
	Yes No	
b.	b. Does the treatment works discharge to a receiving water that is either in Indian Country or that is upstream from (and ever through) Indian Country?	ntually flows
	Yes No	
a	Flow. Indicate the design flow rate of the treatment plant (i.e., the wastewater flow rate that the plant was built to handle). Als average daily flow rate and maximum daily flow rate for each of the last three years. Each year's data must be based on a 12 period with the 12th month of "this year" occurring no more than three months prior to this application submittal.	so provide the -month time
а	a. Design flow rate 2.5 mgd	
	Two Years Ago Last Year This Year	
b	b. Annual average daily flow rate N/A N/A	N/A mgd
C	c. Maximum daily flow rate N/A N/A	N/A mgd
	contribution (by miles) of each.	
	Separate sanitary sewer	100 %
	Combined storm and sanitary sewer	%
B. D	Discharges and Other Disposal Methods.	
а	a. Does the treatment works discharge effluent to waters of the U.S.?	No
	If yes, list how many of each of the following types of discharge points the treatment works uses:	
	ii. Discharges of untreated or partially treated effluent	
	iii. Combined sewer overflow points	
	iv. Constructed emergency overflows (prior to the headworks)	
	v. Other	
b	b. Does the treatment works discharge effluent to basins, ponds, or other surface impoundments that do not have outlets for discharge to waters of the U.S.? If yes, provide the following for each surface impoundment: Location:	✓_ No
	Annual average daily volume discharged to surface impoundment(s) m	gd
	Is discharge continuous or intermittent?	
С	c. Does the treatment works land-apply treated wastewater? Yes	✓ No
	If yes, provide the following <u>for each land application site</u> : Location:	
	Number of acres:	
	Annual average daily volume applied to site: Mgd	
	Is land application continuous or intermittent?	
d	d. Does the treatment works discharge or transport treated or untreated wastewater to another treatment works? Yes	No

FACILITY NAME AND PERMIT NUMBER:

Mountain Run Wastewater Treatment Plant, VA0090212

Form Approved 1/14/99 OMB Number 2040-0086

If transport is by a pa	irty other than the applicant, provide:
Transporter name:	To be determined
Mailing Address:	
Contact person:	
Title:	
Telephone number:	
For each treatment w	vorks that receives this discharge, provide the following: To be determined
Name: Mailing Address:	i o de determined
Contact person:	
Contact porcon.	
Title:	
·	
Title: Telephone number:	NPDES permit number of the treatment works that receives this discharge.
Title: Telephone number: If known, provide the	
Title: Telephone number: If known, provide the Provide the average Does the treatment v	NPDES permit number of the treatment works that receives this discharge.
Title: Telephone number: If known, provide the Provide the average Does the treatment v A.8.a through A.8.d a	e NPDES permit number of the treatment works that receives this discharge. daily flow rate from the treatment works into the receiving facility.
Title: Telephone number: If known, provide the Provide the average Does the treatment v A.8.a through A.8.d a If yes, provide the following t	e NPDES permit number of the treatment works that receives this discharge. daily flow rate from the treatment works into the receiving facility. works discharge or dispose of its wastewater in a manner not included in above (e.g., underground percolation, well injection)? Yes

FACILITY NAME AND PERMIT NUMBER:

Mountain Run Wastewater Treatment Plant, VA0090212

WASTEWATER DISCHARGES:

If you answered "yes" to question A.8.a, complete questions A.9 through A.12 once for each outfall (including bypass points) through which effluent is discharged. Do not include information on combined sewer overflows in this section. If you answered "no" to question A.8.a, go to Part B, "Additional Application Information for Applicants with a Design Flow Greater than or Equal to 0.1 mgd."

.9. D)es	cription of Outfall.		
a	١.	Outfall number	001	
b	ì.	Location	Near Rt. 652, Steve	
			(City or town, if applicat Culpeper	VA
			(County) 38 deg., 28 min., 18	(State) 8 sec. N 77 deg., 52 min., 47 sec. W
			(Latitude)	(Longitude)
С	;.	Distance from shore (it	f applicable)	N/A ft.
d	i.	Depth below surface (i	if applicable)	N/A_ ft.
e	3 .	Average daily flow rate	e	2.5 mgd
		,,		-
f.	-	Does this outfall have periodic discharge?	either an intermittent or	
		periodic discharge:		Yes Y No (go to A.9.g.)
		If yes, provide the follo	owing information:	
		Number of times per y	year discharge occurs:	
		Average duration of ea	_	
		Average flow per disch		mgd
		Months in which disch	narge occurs:	
g] .	Is outfall equipped with	h a diffuser?	Yes No
	_			
10. E	Des	scription of Receiving	j Waters.	
а	а.	Name of receiving wat	ter <u>Mountain</u>	Run
		Al E I when the	£ 1	Deprehenneck Diver
b	٥.	Name of watershed (if	I KNOWN)	Rappahannock River
		United States Soil Cor	nservation Service 14-di	ligit watershed code (if known):
С	٥.	Name of State Manag	gement/River Basin (if kn	nown): Rappahannock River
C	٥.			
C	Э.			ologic cataloging unit code (if known):
		United States Geologi Critical low flow of rec	ical Survey 8-digit hydro	ologic cataloging unit code (if known):able):
d	d.	United States Geologi Critical low flow of recacute N/A	ical Survey 8-digit hydro ceiving stream (if applical	ologic cataloging unit code (if known):

FACILITY NAME AND PERMIT NUMBER: Form Approved 1/14/99 OMB Number 2040-0086 Mountain Run Wastewater Treatment Plant, VA0090212 A.11. Description of Treatment. a. What levels of treatment are provided? Check all that apply. ____ ✓ Secondary Other. Describe: b. Indicate the following removal rates (as applicable): Design BOD removal or Design CBOD removal 95 Design SS removal 95 Design P removal Design N removal Other c. What type of disinfection is used for the effluent from this outfall? If disinfection varies by season, please describe. Ultraviolet (UV) Light Disinfection No If disinfection is by chlorination, is dechlorination used for this outfall? d. Does the treatment plant have post aeration? A.12. Effluent Testing Information. All Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three samples and must be no more than four and one-half years apart. Outfall number: MAXIMUM DAILY VALUE AVERAGE DAILY VALUE PARAMETER Number of Samples Value Units Value Units N/A pH (Minimum) s.u. N/A s.u. pH (Maximum) N/A Flow Rate N/A Temperature (Winter) N/A Temperature (Summer) * For pH please report a minimum and a maximum daily value **MAXIMUM DAILY** AVERAGE DAILY DISCHARGE ANALYTICAL ML/MDL POLLUTANT DISCHARGE METHOD Number of Units Conc. Units Conc. Samples CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS. N/A BIOCHEMICAL OXYGEN BOD-5 N/A DEMAND (Report one) CBOD-5 N/A FECAL COLIFORM

END OF PART A.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE

N/A

TOTAL SUSPENDED SOLIDS (TSS)

FACILITY NAME AND PERMIT NUMBER:

Mountain Run Wastewater Treatment Plant, VA0090212

Form Approved 1/14/99 OMB Number 2040-0086

BA	SIC APPLICATION INFORMATION
PAR	T B. ADDITIONAL APPLICATION INFORMATION FOR APPLICANTS WITH A DESIGN FLOW GREATER THAN OR EQUAL TO 0.1 MGD (100,000 gallons per day).
All ap	oplicants with a design flow rate ≥ 0.1 mgd must answer questions B.1 through B.6. All others go to Part C (Certification).
R 1	Inflow and Infiltration. Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration.
D.1.	N/A gpd
	Briefly explain any steps underway or planned to minimize inflow and infiltration.
	At the time of this application, the collection works/wastewater treatment facility have not been constructed.
B.2.	Topographic Map. Attach to this application a topographic map of the area extending at least one mile beyond facility property boundaries. This map must show the outline of the facility and the following information. (You may submit more than one map if one map does not show the entire area.)
	a. The area surrounding the treatment plant, including all unit processes.
	b. The major pipes or other structures through which wastewater enters the treatment works and the pipes or other structures through which treated wastewater is discharged from the treatment plant. Include outfalls from bypass piping, if applicable.
	c. Each well where wastewater from the treatment plant is injected underground.
	d. Wells, springs, other surface water bodies, and drinking water wells that are: 1) within 1/4 mile of the property boundaries of the treatment works, and 2) listed in public record or otherwise known to the applicant.
	e. Any areas where the sewage sludge produced by the treatment works is stored, treated, or disposed.
	f. If the treatment works receives waste that is classified as hazardous under the Resource Conservation and Recovery Act (RCRA) by truck, rail, or special pipe, show on the map where that hazardous waste enters the treatment works and where it is treated, stored, and/or disposed.
	Process Flow Diagram or Schematic. Provide a diagram showing the processes of the treatment plant, including all bypass piping and all backup power sources or redundancy in the system. Also provide a water balance showing all treatment units, including disinfection (e.g, chlorination and dechlorination). The water balance must show daily average flow rates at influent and discharge points and approximate daily flow rates between treatment units. Include a brief narrative description of the diagram.
B.4.	Operation/Maintenance Performed by Contractor(s).
i	Are any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a contractor?Yes
	If yes, list the name, address, telephone number, and status of each contractor and describe the contractor's responsibilities (attach additional pages if necessary).
	Name:
	Mailing Address:
	Telephone Number:
	Responsibilities of Contractor:
	respondishings of estimates.
B.5.	Scheduled Improvements and Schedules of Implementation. Provide information on any uncompleted implementation schedule or uncompleted plans for improvements that will affect the wastewater treatment, effluent quality, or design capacity of the treatment works. If the treatment works has several different implementation schedules or is planning several improvements, submit separate responses to question B.5 for each. (If none, go to question B.6.)
	a. List the outfall number (assigned in question A.9) for each outfall that is covered by this implementation schedule.
	N/A
	b. Indicate whether the planned improvements or implementation schedule are required by local, State, or Federal agencies.
	Yes No

FACILITY NAME AND PERMIT NUMBER:

Mountain Run Wastewater Treatment Plant, VA0090212

applicable. For imp applicable. Indicate Implementation Sta - Begin construction - End construction - Begin discharge - Attain operational e. Have appropriate properties briefly:	sed by any corprovements place dates as according to the second of the s	mpliance schedule anned independen urately as possible Schedule MM / DD / / / _ / / _ acces concerning of the US must proving for each outfilion reported must comply with QA/O	e or any actual ditly of local, State e. A YYYYY M A YYYYY M A Ther Federal/State BD ONLY). Wide effluent testifall through which be based on dat C requirements	ates of completion, or Federal agentation and the completion of the following data for the figure at the collected through the colle	on for the implemencies, indicate properties of the implementation	nentation steps listed planned or actual com Yes ters. Provide the indiculde information or	pletion dates, as
applicable. For imp applicable. Indicate Implementation Sta - Begin construction - End construction - Begin discharge - Attain operational e. Have appropriate properties briefly:	provements place dates as according to the dates as according to the date according to the date according to the date according to the date accord	anned independenturately as possible Schedule MM / DD / — / — / — — / — / — acces concerning of the US must proving for each outfilion reported must comply with QA/O	tly of local, State A YYYYY M YYYYY M her Federal/State BD ONLY). vide effluent testifall through which be based on dat C requirements	e, or Federal age Actual Completio IM / DD / YYYY	been obtained? following parame	eters. Provide the indi	pletion dates, as
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RESIDUAL, TRC) DISSOLVED OXYGEN TOTAL KJELDAHL NITROGEN (TKN) NITRATE PLUS NITRITE NITROGEN	N/A						
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NITROGEN (TKN) NITRATE PLUS NITRITE NITROGEN	N/A						
NITRATE PLUS NITRITE NITROGEN	N/A						
	N/A						
OIL and GREASE	i						
PHOSPHORUS (Total)	N/A						·
TOTAL DISSOLVED SOLIDS (TDS)	N/A						
OTHER	N/A N/A N/A						
	N/A						

FACILITY NAME AND PERMIT NUMBER:

Form Approved 1/14/99 OMB Number 2040-0086

Mountain Run Wastewater Treatment Plant, VA0090212 BASIC APPLICATION INFORMATION PART C. CERTIFICATION All applicants must complete the Certification Section. Refer to instructions to determine who is an officer for the purposes of this certification. All applicants must complete all applicable sections of Form 2A, as explained in the Application Overview. Indicate below which parts of Form 2A you have completed and are submitting. By signing this certification statement, applicants confirm that they have reviewed Form 2A and have completed all sections that apply to the facility for which this application is submitted. Indicate which parts of Form 2A you have completed and are submitting: Basic Application Information packet Supplemental Application Information packet: Part D (Expanded Effluent Testing Data) Part E (Toxicity Testing: Biomonitoring Data) Part F (Industrial User Discharges and RCRA/CERCLA Wastes) Part G (Combined Sewer Systems) ALL APPLICANTS MUST COMPLETE THE FOLLOWING CERTIFICATION. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Howard, Jr., Director of Environmental Services Name and official title Signature (540) 727-3409 Telephone number Date signed Upon request of the permitting authority, you must submit any other information necessary to assess wastewater treatment practices at the treatment

SEND COMPLETED FORMS TO:

works or identify appropriate permitting requirements.

